TECHNICS ST-3500

MODEL

SERVICE MANUAL

ORDER NO. AD-7303-070

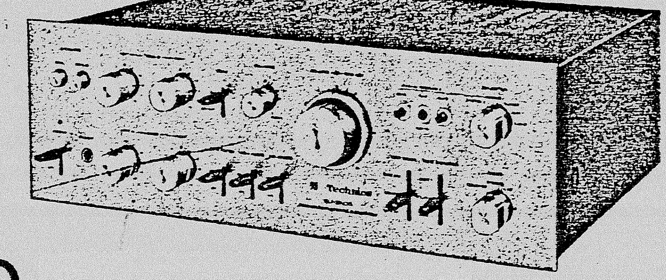
Service Manual

Technics

HI-FI COMPONENTS

Technics

Stereo Integrated Amplifier



MODEL SU-3500

TECHNICAL SPECIFICATION (IHF)

MAIN AMPLIFIER SECTION

Music Power:		190W (4Ω) 125W (8Ω)
1kHz continuous power:		
	each channel driven	65W/65W (4Ω)
		50W/50W (8Ω)
	both channels driven	55W+55W (4Ω)
		43W + 43W (8Ω)
20Hz~20kHz continuous power:		
	both channels driven	47W +47W (4Ω)
		41W +41W (8Ω)
Total harmonic distortion:		0.08%
Intermodulation distortion:		0.08%
Power bandwidth:		
	(both channels driven at 8Ω)	5Hz ~ 70kHz, −3dB
Frequency responce:		5Hz~200kHz, +0dB, −3dB
Residual hum and noise:		0.5mV
S/N:		110dB
Damping factor:		50 (4Ω), 100 (8Ω)
Input sensitivity and impedance:		1V/50kΩ
Load impedance:	MAIN or REMOTE	4~16Ω
	MAIN + REMOTE	8~16Ω

PRE AMPLIFIER SECTION

Input sensitivity and impedance:	PHONO 1, 2	2mV/25kΩ, 50kΩ, 100kΩ
	TUNER, AUX 1, 2	100mV/50kΩ
	TAPE DECK 1, 2 (PLAYBACK)	100mV/50kΩ
	TAPE DECK 1, REC/PLAY (Input)	100mV/50kΩ
PHONO 1, 2 maximum input voltage:		510mV
Total harmonic distortion:		0.05%
S/N:	PHONO 1, 2	70dB
	TUNER, AUX 1, 2	90dB
Frequency response:		
	PHONO 1, 2	RIAA standard curve ±0.5dB
	TUNER, AUX 1, 2	5Hz~100kHz, +0dB, −3dB
Tone control:	BASS	50Hz, +12dB~−12dB
	TREBLE	20kHz, +12dB~−12dB
Filter:	LOW	30Hz, −12dB/oct
	HIGH	8kHz, −12dB/oct
Loudness control (volume at −30dB):		100Hz +8dB
Output voltage and impedance:	PRE OUT rated	1V/100Ω
	max.	11V/100Ω
	TAPE DECK 1, 2 (REC OUT)	100mV/500Ω
	TAPE DECK 1 REC/PLAY (output)	30mV/80kΩ

GENERAL

Power Supply:	50Hz/60Hz, 110/120/220/240V
Power consumption:	380W
Dimensions (W×H×D):	16-1/8"×5-1/2"×13-3/8" (410×140×340) mm
Weight:	22.5 lbs (10.2kg)

TECHNISCHE DATEN (DIN 45 500)

VERSTÄRKERTEIL

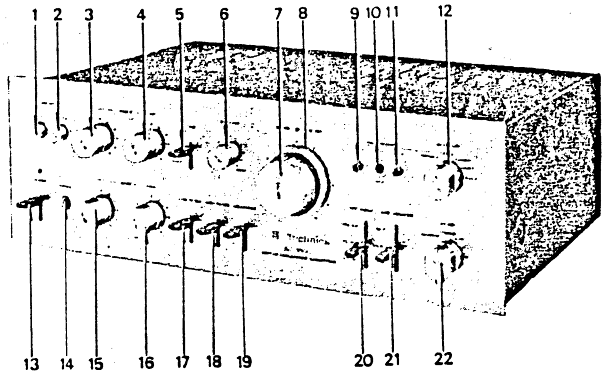
Musikleistung:			2×95W (4Ω), 2×62.5W (8Ω)
RMS-Dauertonleistung bei 1kHz:			
	beide Kanäle zusammen ausgesteuert		2×55W (4Ω)
			2×43W (8Ω)
20Hz~20kHz RMS-Dauertonleistung:			
	beide Kanäle zusammen ausgesteuert		2×47W (4Ω)
			2×41W (8Ω)
Harmonische Verzerrungen:	Nennleistung bei 1kHz 4Ω		0.08%
	Nennleistung bei 40Hz~16000Hz 4Ω		0.08%
Intermodulationsverzerrung:			
	Nennleistung bei 250Hz : 8000Hz − 4 : 1 4Ω		0.08%
Leistungsbandbreite:			
	(beide Kanale zusammen ausgesteuert bei 4Ω)		5Hz~70kHz, −3dB
Frequenzgang:			5Hz~100kHz, +0dB −3dB
Fremdspannungsabstand:	Nennleistung	PHONO	60dB
		AUX	80dB
	50mV Ausgangsleistung	PHONO	53dB
		AUX	54dB
Dampfungsfaktor:			50 (4Ω), 100(8Ω)
Endimpedanz:	MAIN oder REMOTE		4~16Ω
	MAIN + REMOTE		8~16Ω
Eingangsempfindlichkeit & Impedanz:	MAIN IN		1V/50kΩ
	PHONO 1, 2		2mV/25kΩ, 50kΩ, 100kΩ
	TUNER, AUX 1, 2		100mV/50kΩ
	TAPE DECK 1, 2 (PLAYBACK)		100mV/50kΩ
	TAPE DECK 1 REC/PLAY (Wiedergabe)		100mV/50kΩ
PHONO 1, 2 Maximal Eingangspannungen:			510mV
Klangregler:	Bässe		50Hz, +12dB~−12dB
	Höhen		20kHz, +12dB~−12dB
Filter:	Rumpel		30Hz, −12dB/oct
	Rausch		8kHz, −12dB/oct
Gehörrichtige Lautstärkekontur:	(Lautstärke −30dB)		100Hz, +8dB
Ausgangsspannungen & Impedanz:	PRE OUT	Nenn	1V/100Ω
		Maximal	11V/100Ω
	TAPE DECK 1, 2 (REC OUT)		100mV/500Ω
	TAPE DECK 1 REC/PLAY (Aufnahme)		30mV/80kΩ

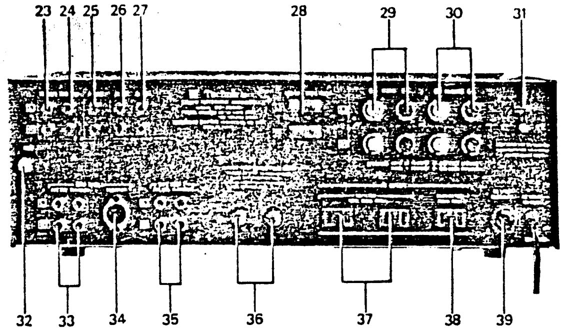
ALLGEMEINE DATEN

Netzspannung Umschaltbar:	50Hz/60Hz 110/120/220/240V
Leistungsaufnahme:	380W
Abmessungen (B×H×T):	410×140×340mm
Gewicht:	10.2kg

MATSUSHITA ELECTRIC
MATSUSHITA ELECTRIC TRADING CO., LTD.
P. O. Box 288, Central Osaka, Japan

LOCATION OF CONTROLS





1. MAIN SPEAKER SWITCH [S10]
2. REMOTE SPEAKER SWITCH [S11]
3. LEFT TREBLE CONTROL
4. RIGHT TREBLE CONTROL
5. TONE SWITCH [S6]
6. BALANCE CONTROL
7. VOLUME CONTROL
8. PRE-SET
9. PHONO IMPEDANCE 25kΩ SWITCH [S2-1]
10. PHONO IMPEDANCE 50kΩ SWITCH [S2-2]
11. PHONO IMPEDANCE 100kΩ SWITCH [S2-3]
12. SELECTOR SWITCH [S1]
13. POWER SOURCE SWITCH [S12]
14. HEADPHONES JACK
15. LEFT BASS CONTROL
16. RIGHT BASS CONTROL
17. LOW FILTER SWITCH [S8]
18. HIGH FILTER SWITCH [S9]
19. LOUDNESS SWITCH [S7]
20. RECORDING MODE SWITCH [S4]
21. TAPE MONITOR SWITCH [S3]
22. MODE SWITCH [S5]
23. PHONO 1 INPUT TERMINALS
24. PHONO 2 INPUT TERMINALS
25. TUNER INPUT TERMINALS
26. AUX 1 INPUT TERMINALS
27. AUX 2 INPUT TERMINALS
28. PRE AMP AND MAIN AMP CONNECTION TERMINALS
29. MAIN SPEAKER TERMINALS
30. REMOTE SPEAKER TERMINALS
31. VOLTAGE SELECTOR SWITCH [S13]
32. GROUND TERMINAL
33. TAPE DECK 1 CONNECTION TERMINALS
34. TAPE DECK 1 CONNECTION DIN SOCKET
35. TAPE DECK 2 CONNECTION TERMINALS
36. CIRCUIT PROTECTION FUSES
37. AC OUTLETS .... Switched
38. AC OUTLET .... Unswitched
39. AC LINE FUSE

TO REMOVE CABINET AND BOTTOM BOARD

1. Remove six (6) cabinet mounting screws, nos. ①~④, as illustrated in figure 1. (No. ③ and ④ screws are left and right side of cabinet.)
2. Remove cabinet from chassis.
3. Remove six (6) bottom board mounting red screws, nos. ⑤ ~⑩, as illustrated in figure 2.
4. Remove bottom board from chassis.

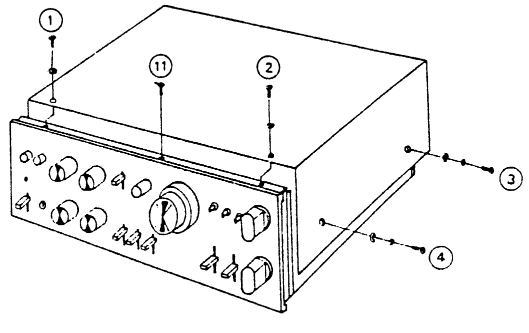


Fig. 1

TO REMOVE FRONT PANEL

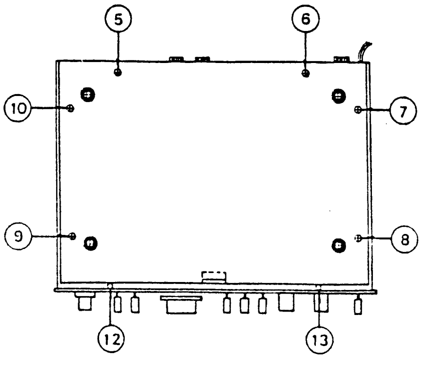


Fig. 2

1. Remove cabinet from chassis.
2. Remove control knobs from set. Refer to "Cabinet & Chassis Parts Location" on page 7.
3. Remove pre-set from set. Refer to "Cabinet & Chassis Parts Location" on page 7.
4. Remove three (3) panel mounting black screws, nos. ⑪ ~⑬ as illustrated in figure 1 and figure 2.
5. Remove front panel from chassis.

■ ALIGNMENT INSTRUCTIONS

Notes :

1. Volume control .... Minimum
2. Maintain line voltage at rated voltage.
3. Before adjusting. Ico adjusting volumes (VR402, Left and Right channel) should be turned to the right side completely.
4. The Ico adjustment should be started about 5 minutes after setting the power switch to the ON position.

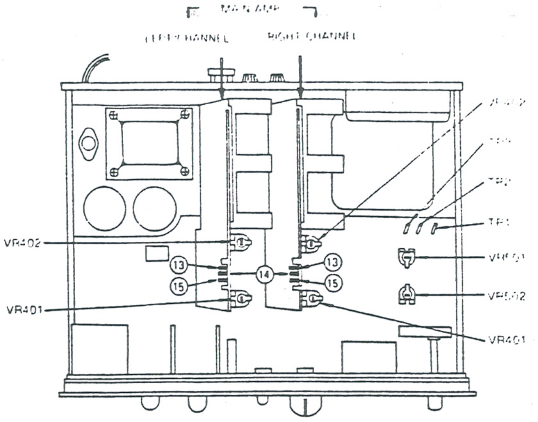
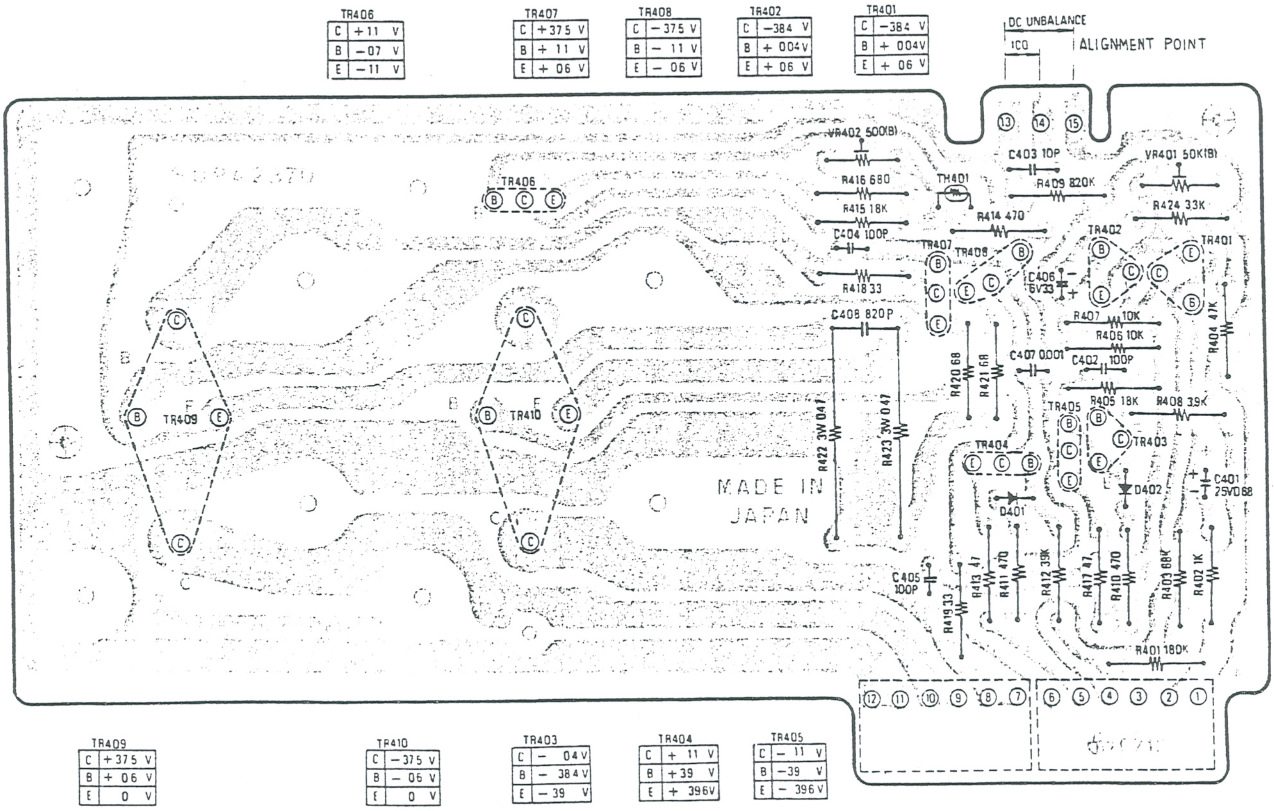

MAIN AMP
LEFT CHANNEL
RIGHT CHANNEL
VR402
VR401
⑬
⑭
⑮
VR402
TP3
TP2
TP1
VR501
VR502
VR401

Fig. 3

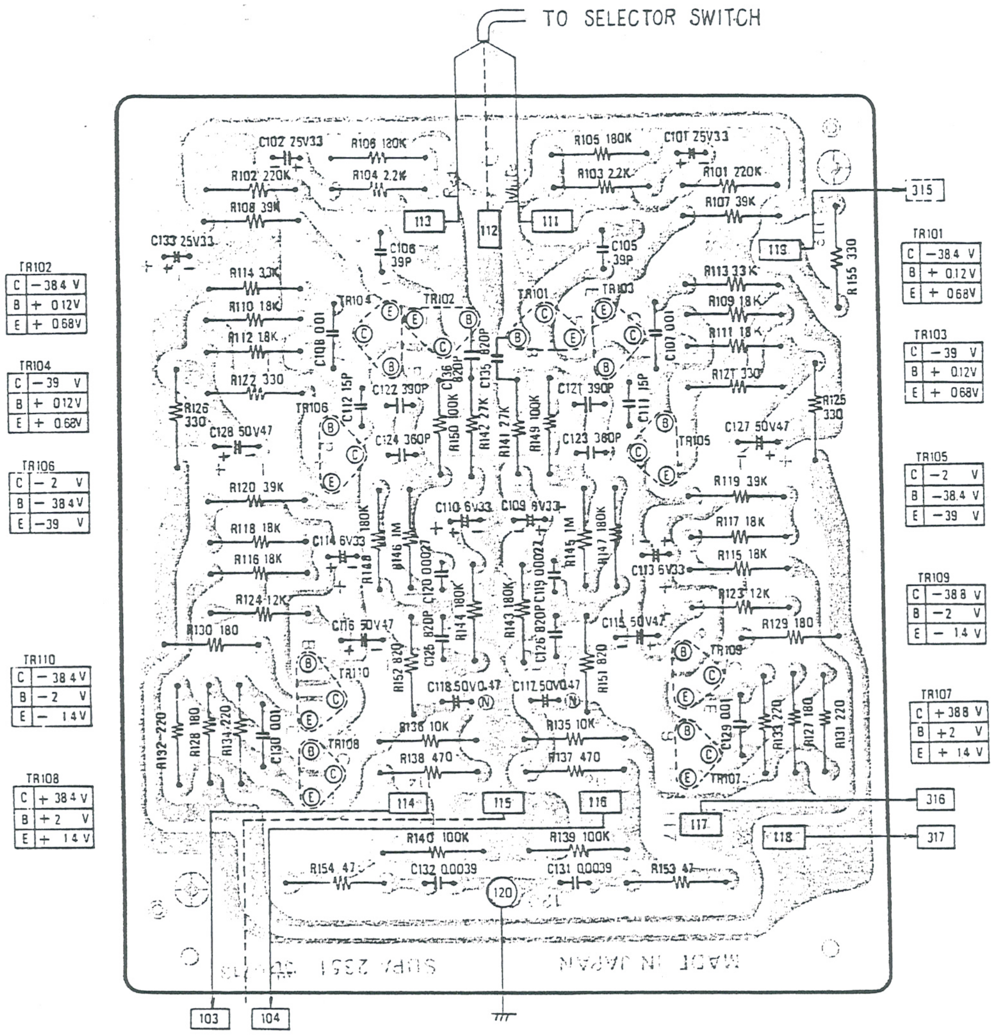
ALIGNMENT	DC VTVM CONNECTION	ADJUSTMENT POINTS	REMARKS
POSITIVE POWER VOLTAGE	Connect DC VTVM to test point **TP3.** Common to test point **TP1.**	VR501	Make sure that DC VTVM becomes positive (+)40V.
NEGATIVE POWER VOLTAGE	Connect DC VTVM to test point **TP1.** Common to test point **TP2.**	VR502	Make sure that DC VTVM becomes negative (−) 40V.
DC UNBALANCE	Connect DC VTVM to alignment point ⑬ and ⑮ terminals. Refer to figure 3.	VR401	Make sure that DC VTVM becomes zero (0)V. [Left and Right side]
Ico	Connect DC VTVM to alignment point ⑭ (positive side) and ⑬ (negative side) terminals. Refer to figure 3.	VR402	Make adjustment so that the indication on DC VTVM becomes 15mV. [Left and Right side]

MAIN AMPLIFIER Circuit

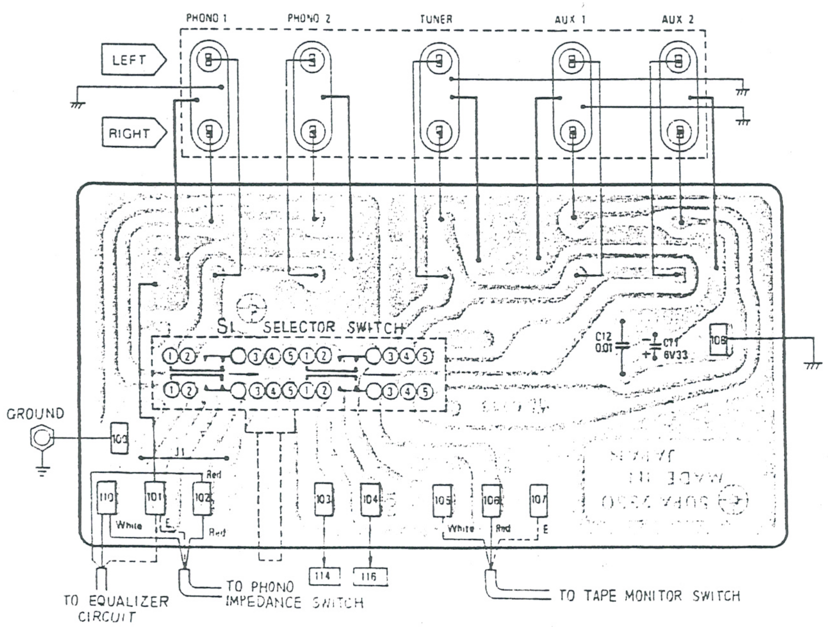
Left channel is same as Right channel


TR406
C +11 V
B −07 V
E −11 V
TR407
C +375 V
B + 11 V
E + 06 V
TR408
C − 375 V
B − 11 V
E − 06 V
TR402
C −384 V
B + 004V
E + 06 V
TR401
C −384 V
B + 004V
E + 06 V
DC UNBALANCE
ICO
ALIGNMENT POINT
⑬ ⑭ ⑮
VR402 500(B)
R416 680
TH401
R415 18K
R414 470
C404 100P
C403 10P
R409 820K
VR401 50K(B)
R424 33K
TR406
TR407
TR408
TR402
TR401
R418 33
C406 6V33
C408 820P
R407 10K
R406 10K
R404 47K
C407 0.001
C402 100P
R420 68
R421 68
R422 3W 0.47
R423 3W 0.47
TR405
R405 18K
R408 39K
TR403
TR404
D401
D402
C401 25V0.68
TR409
TR410
MADE IN JAPAN
C405 100P
R419 33
R413 47
R411 470
R412 33K
R417 47
R410 470
R403 68K
R402 1K
R401 180K
⑫ ⑪ ⑩ ⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①
TR409
C +375 V
B + 06 V
E 0 V
TR410
C −375 V
B − 06 V
E 0 V
TR403
C − 04 V
B − 384 V
E − 39 V
TR404
C + 11 V
B +39 V
E + 396V
TR405
C − 11 V
B −39 V
E − 396 V

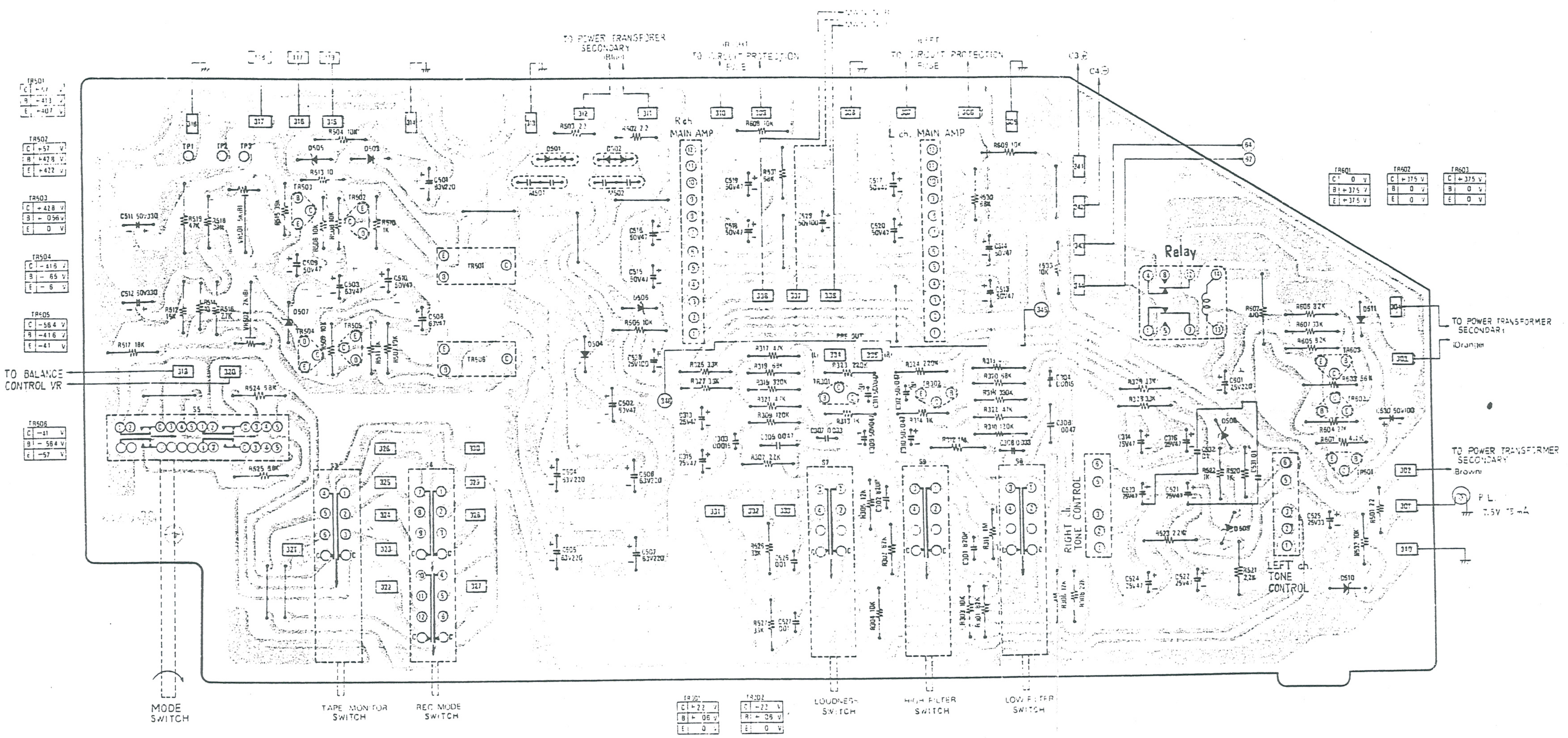
EQUALIZER Circuit Board


TO SELECTOR SWITCH
TR102 C −38.4 V B + 0.12V E + 0.68V
TR104 C −39 V B + 0.12V E + 0.68V
TR106 C −2 V B −38.4V E −39 V
TR110 C −38.4V B −2 V E − 14V
TR108 C + 38.4V B +2 V E + 14V
TR101 C −38.4 V B + 0.12V E + 0.68V
TR103 C −39 V B + 0.12V E + 0.68V
TR105 C −2 V B −38.4 V E −39 V
TR109 C −38.8 V B −2 V E − 14V
TR107 C +38.8 V B +2 V E + 14V
C102 25V33
R106 120K
R105 180K
C101 25V33
R102 220K
R104 2.2K
R103 2.2K
R101 220K
R108 39K
R107 39K
113
112
111
119
315
R155 330
C133 25V33
C106 39P
C105 39P
R114 3.3K
R113 33K
R110 18K
R109 18K
R112 18K
R111 18K
C108 0.01
C107 0.01
C136 820P
C135 820P
R122 330
R121 330
C112 15P
C111 15P
C122 390P
C121 390P
R126 330
R125 330
C128 50V47
C127 50V47
C124 360P
C123 360P
R150 100K
R142 27K
R141 27K
R149 100K
R120 39K
R119 39K
C110 6V33
C109 6V33
R118 18K
R117 18K
R116 18K
R115 18K
C114 6V33
C113 6V33
R148 180K
R146 1M
R145 1M
R147 180K
C120 0.0027
C119 0.0027
R124 12K
R123 12K
R144 180K
R143 180K
R130 180
R129 180
C116 50V47
C115 50V47
C125 820P
C126 820P
R152 820
R151 820
C118 50V0.47
C117 50V0.47
R136 10K
R135 10K
R138 470
R137 470
R132 220
R128 180
R134 220
C130 0.01
C129 0.01
R133 220
R127 180
R131 220
114
115
116
117
118
316
317
R140 100K
R139 100K
R154 47
C132 0.0039
C131 0.0039
R153 47
120
SUPA 2351
MADE IN JAPAN
103
104

SELECTOR SWITCH Circuit Board

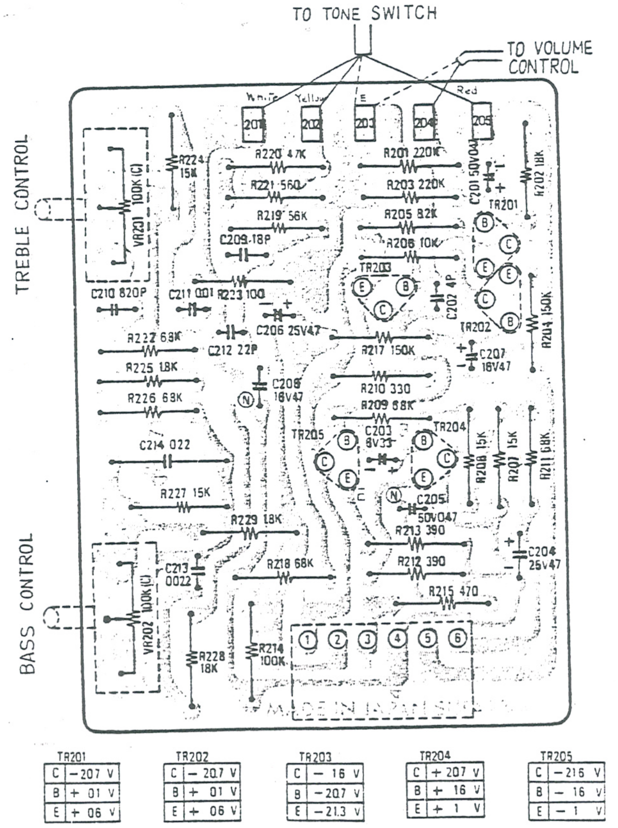

PHONO 1
PHONO 2
TUNER
AUX 1
AUX 2
LEFT
RIGHT
S1 SELECTOR SWITCH
C12 0.01
C11 6V33
108
GROUND
109
J1
110
101
102
Red
White
E
Red
103
104
105
106
107
White
Red
E
MADE IN JAPAN
SUPA 2350
114
116
TO EQUALIZER CIRCUIT
TO PHONO IMPEDANCE SWITCH
TO TAPE MONITOR SWITCH

POWER SOURCE, SPEAKER PROTECTION, FILTER AMP, TAPE MONITOR SWITCH & MODE SWITCH Circuit Board

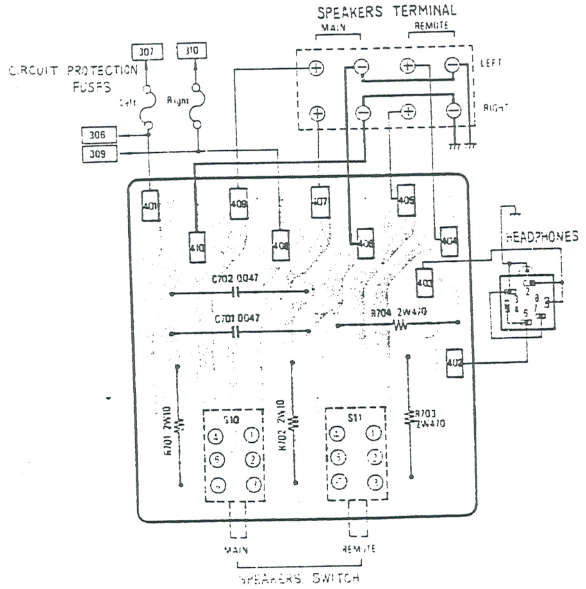

TO POWER TRANSFORMER SECONDARY (Blue)
TO CIRCUIT PROTECTION FUSE
R ch. MAIN AMP
L ch. MAIN AMP
Relay
TO POWER TRANSFORMER SECONDARY (Orange)
TO POWER TRANSFORMER SECONDARY (Brown)
P.L. 7.5V 15mA
TO BALANCE CONTROL VR
RIGHT TONE CONTROL
LEFT ch. TONE CONTROL
MODE SWITCH
TAPE MONITOR SWITCH
REC MODE SWITCH
LOUDNESS SWITCH
HIGH FILTER SWITCH
LOW FILTER SWITCH

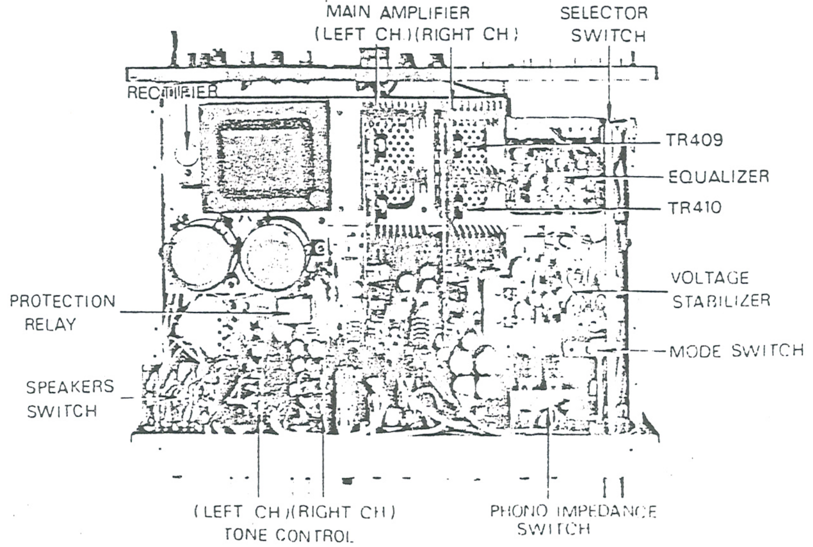
TONE CONTROL Circuit Board

Left channel is same as Right channel

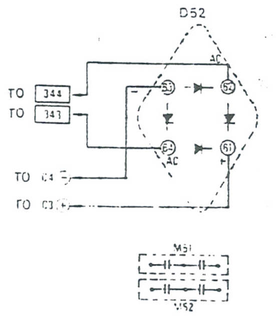

TO TONE SWITCH
TO VOLUME CONTROL
TREBLE CONTROL
BASS CONTROL
VR201 100K(C)
VR202 100K(D)
MADE IN JAPAN
TR201 C −20.7 V B +0.1 V E +0.6 V
TR202 C −20.7 V B +0.1 V E +0.6 V
TR203 C −16 V B −20.7 V E −21.3 V
TR204 C +20.7 V B +16 V E +1 V
TR205 C −21.6 V B −16 V E −1 V

SPEAKERS SWITCH Circuit Board

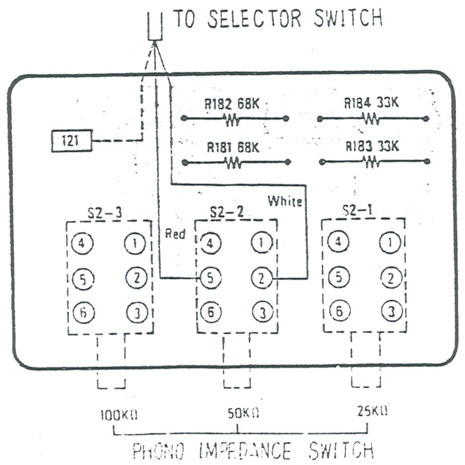

SPEAKERS TERMINAL
MAIN
REMOTE
LEFT
RIGHT
CIRCUIT PROTECTION FUSES
HEADPHONES
MAIN
REMOTE
SPEAKERS SWITCH


MAIN AMPLIFIER (LEFT CH.)(RIGHT CH.)
SELECTOR SWITCH
RECTIFIER
TR409
EQUALIZER
TR410
VOLTAGE STABILIZER
PROTECTION RELAY
MODE SWITCH
SPEAKERS SWITCH
(LEFT CH.)(RIGHT CH.) TONE CONTROL
PHONO IMPEDANCE SWITCH

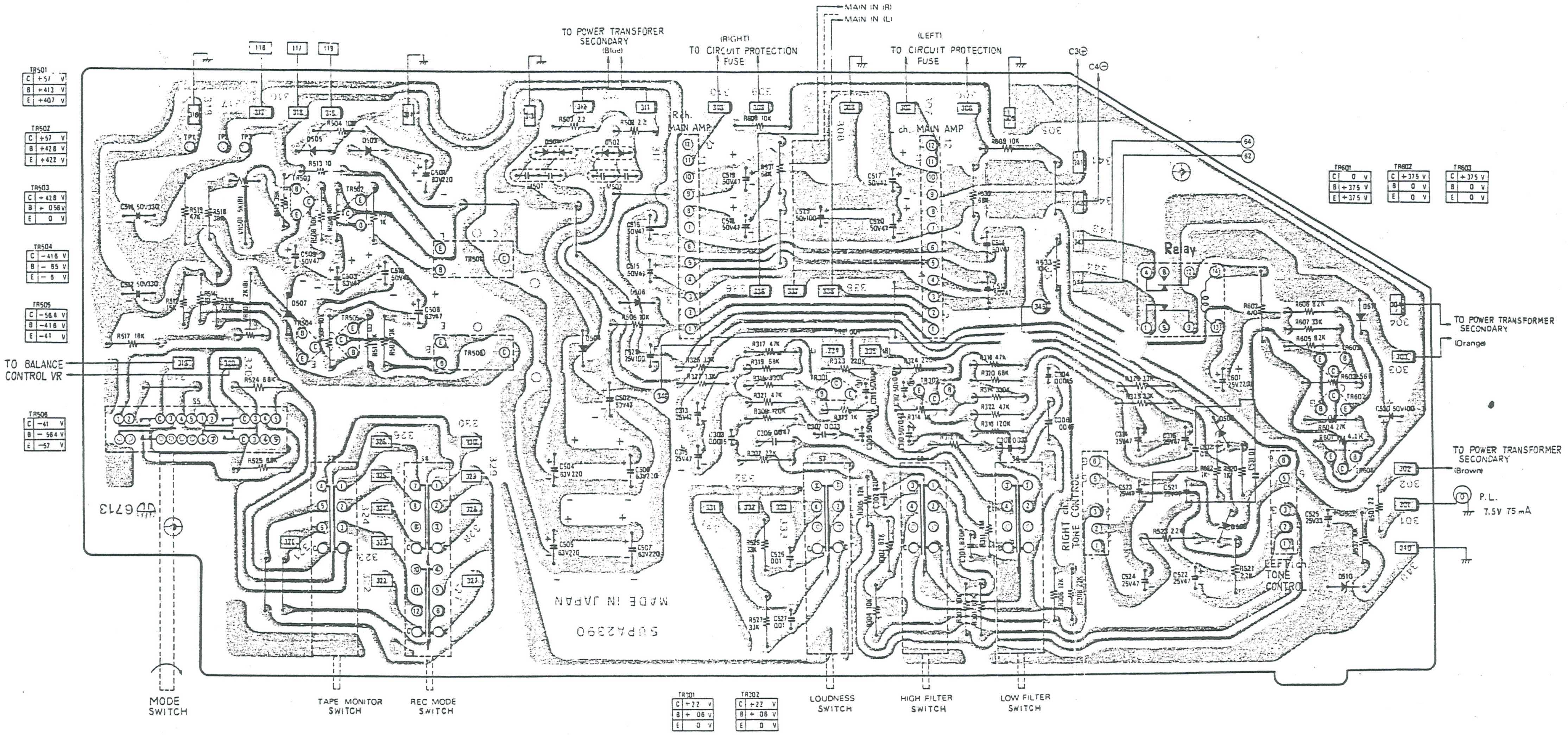
RECTIFIER


D52
TO 344
TO 341
TO C4
TO C3

PHONO IMPEDANCE SWITCH Circuit Board


TO SELECTOR SWITCH
121
R182 68K
R184 33K
R181 68K
R183 33K
S2-3
S2-2
S2-1
Red
White
100KΩ
50KΩ
25KΩ
PHONO IMPEDANCE SWITCH

POWER SOURCE, SPEAKER PROTECTION, FILTER AMP, TAPE MONITOR SWITCH & MODE SWITCH Circuit Board


TO POWER TRANSFORMER SECONDARY (Blue)
(RIGHT) TO CIRCUIT PROTECTION FUSE
MAIN IN (R)
MAIN IN (L)
(LEFT) TO CIRCUIT PROTECTION FUSE
C3⊕
C4⊖
R ch. MAIN AMP
L ch. MAIN AMP
Relay
TO POWER TRANSFORMER SECONDARY (Orange)
TO POWER TRANSFORMER SECONDARY (Brown)
P.L. 7.5V 75mA
TO BALANCE CONTROL VR
RIGHT ch. TONE CONTROL
LEFT ch. TONE CONTROL
MADE IN JAPAN
SUPA2390
MODE SWITCH
TAPE MONITOR SWITCH
REC MODE SWITCH
LOUDNESS SWITCH
HIGH FILTER SWITCH
LOW FILTER SWITCH

TR501

C	+57 V
B	+413 V
E	+407 V

TR502

C	+57 V
B	+428 V
E	+422 V

TR503

C	+428 V
B	+ 056 V
E	0 V

TR504

C	−416 V
B	− 65 V
E	− 6 V

TR505

C	−564 V
B	−416 V
E	−41 V

TR506

C	−41 V
B	− 564 V
E	−57 V

TR601

C	0 V
B	+375 V
E	+375 V

TR602

C	+375 V
B	0 V
E	0 V

TR603

C	+375 V
B	0 V
E	0 V

TR301

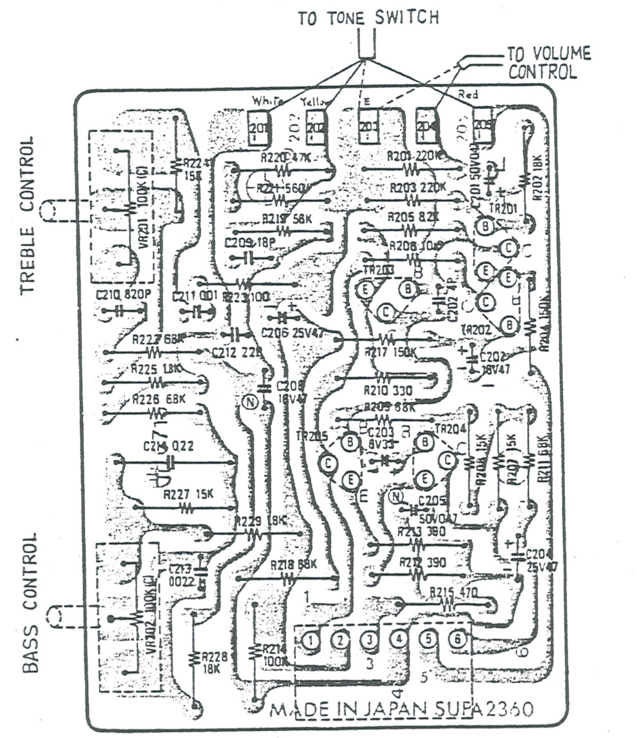
C	+22 V
B	+ 06 V
E	0 V

TR302

C	+22 V
B	+ 06 V
E	0 V

TONE CONTROL Circuit Board

Left channel is same as Right channel


TO TONE SWITCH
TO VOLUME CONTROL
TREBLE CONTROL
BASS CONTROL
MADE IN JAPAN SUPA2360

TR201

C	− 20.7 V
B	+ 0.1 V
E	+ 0.6 V

TR202

C	− 20.7 V
B	+ 0.1 V
E	+ 0.6 V

TR203

C	− 1.6 V
B	− 20.7 V
E	− 21.3 V

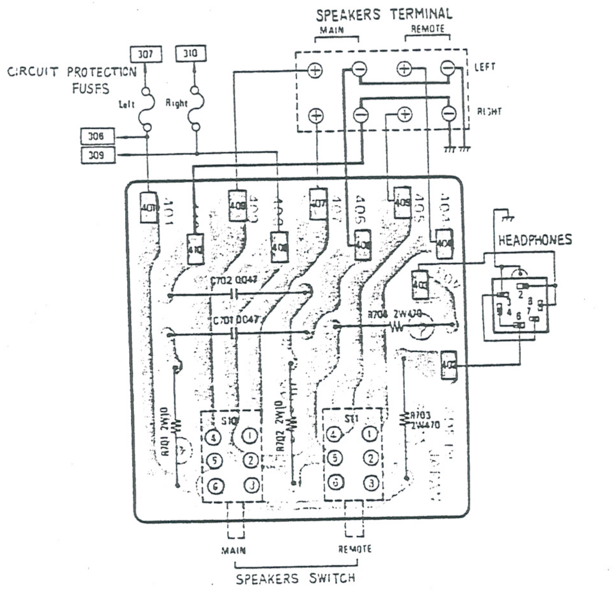
TR204

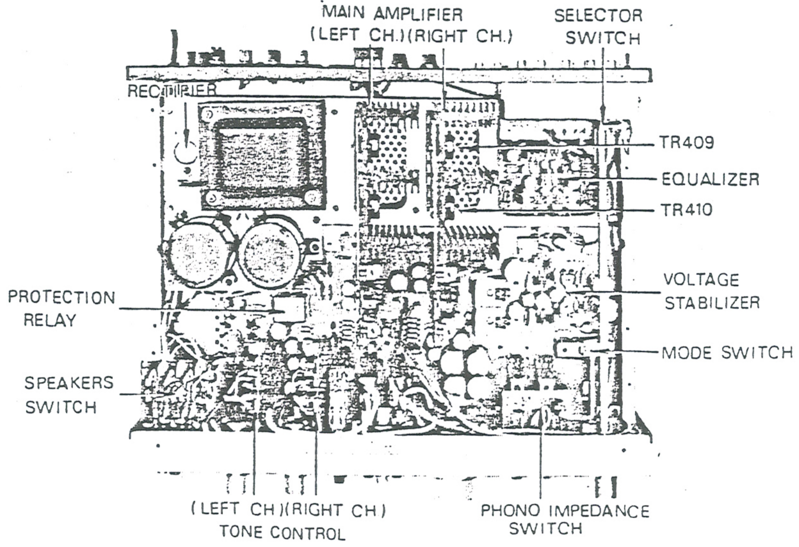
C	+ 20.7 V
B	+ 1.6 V
E	+ 1 V

TR205

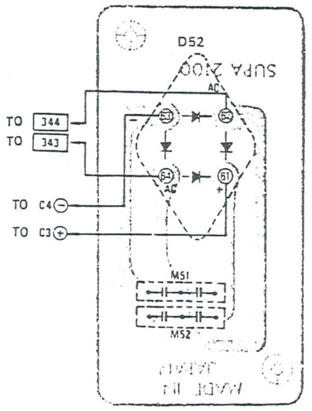
C	− 21.6 V
B	− 1.6 V
E	− 1 V

SPEAKERS SWITCH Circuit Board

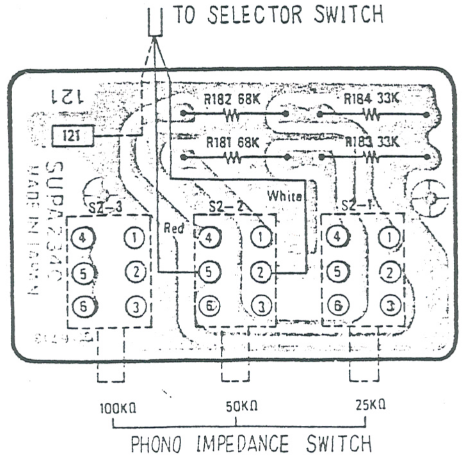

SPEAKERS TERMINAL
MAIN
REMOTE
LEFT
RIGHT
CIRCUIT PROTECTION FUSES
Left
Right
HEADPHONES
MAIN
REMOTE
SPEAKERS SWITCH


MAIN AMPLIFIER
(LEFT CH.)(RIGHT CH.)
SELECTOR SWITCH
RECTIFIER
TR409
EQUALIZER
TR410
VOLTAGE STABILIZER
PROTECTION RELAY
MODE SWITCH
SPEAKERS SWITCH
(LEFT CH)(RIGHT CH)
TONE CONTROL
PHONO IMPEDANCE SWITCH

RECTIFIER

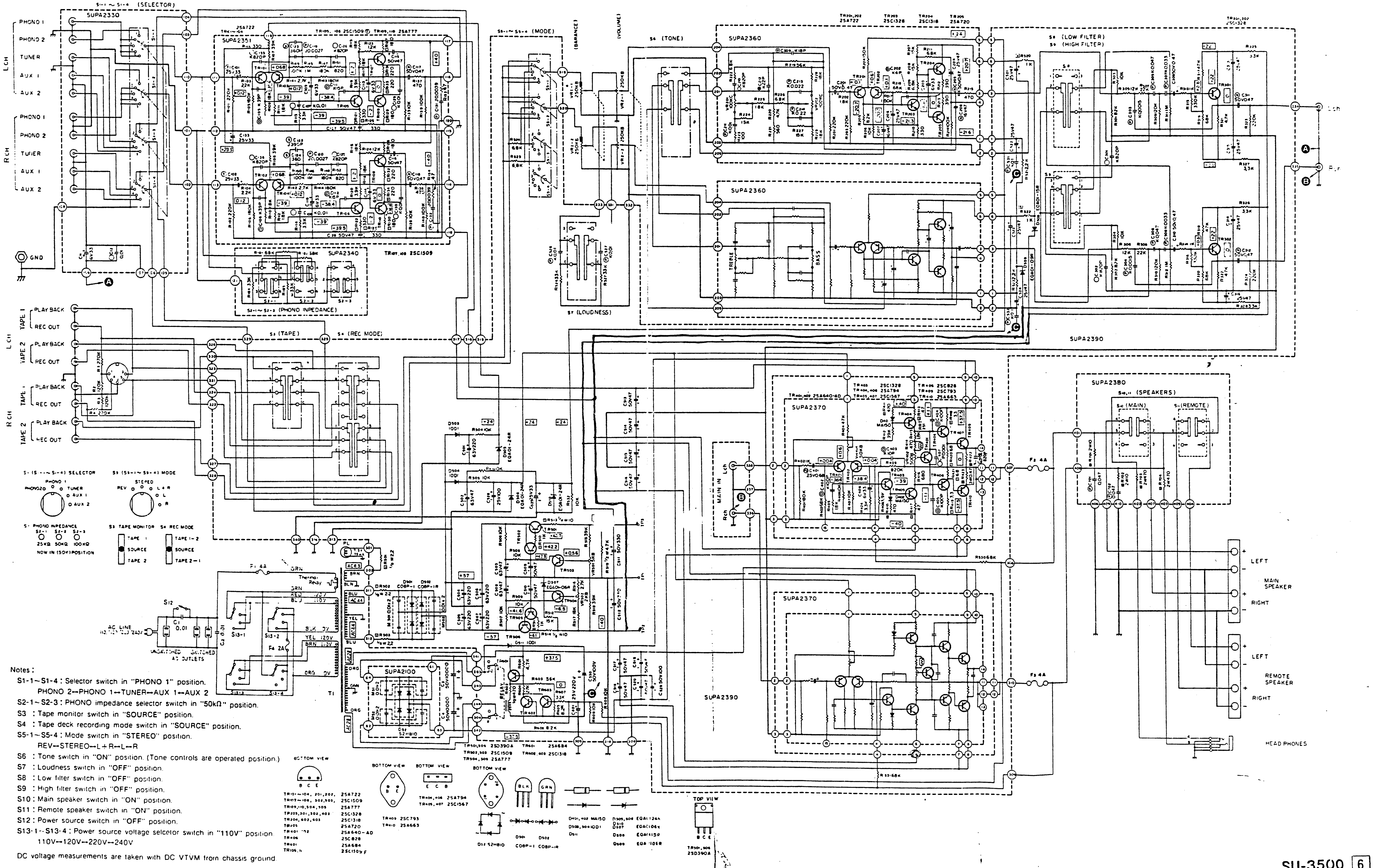

D52
SUPA 2100
TO 344
TO 343
TO C4⊖
TO C3⊕
M51
M52
MADE IN JAPAN

PHONO IMPEDANCE SWITCH Circuit Board


TO SELECTOR SWITCH
121
R182 68K
R184 33K
R181 68K
R183 33K
Red
White
S2-3
S2-2
S2-1
100KΩ
50KΩ
25KΩ
PHONO IMPEDANCE SWITCH

Schematic Diagram......... Model SU-3500

(This schematic diagram may be modified at any time with the development of new technology.)


S1-1 ~ S1-4 (SELECTOR)
SUPA2330
PHONO 1
PHONO 2
TUNER
AUX 1
AUX 2
L CH
R CH
GND
SUPA2351
SUPA2340
S2-1 ~ S2-3 (PHONO INPEDANCE)
S5-1 ~ S5-4 (MODE)
(BARANCE)
(VOLUME)
S6 (TONE)
S7 (LOUDNESS)
SUPA2360
TREBLE
BASS
S8 (LOW FILTER)
S9 (HIGH FILTER)
SUPA2390
PLAY BACK
REC OUT
TAPE 1
TAPE 2
S3 (TAPE)
S4 (REC MODE)
SUPA2370
MAIN IN
SUPA2380
S10,11 (SPEAKERS)
S10 (MAIN)
S11 (REMOTE)
F2 4A
F3 4A
LEFT
RIGHT
MAIN SPEAKER
REMOTE SPEAKER
HEAD PHONES
AC LINE
UNSWITCHED
SWITCHED
AC OUTLETS
S12
S13-1
S13-2
S13-3
S13-4
F1 4A
F4 2A
T1
SUPA2100
D52 S2HB10
Thermo Relay
S1 (S1-1 ~ S1-4) SELECTOR
PHONO 1
PHONO 2
TUNER
AUX 1
AUX 2
S5 (S5-1 ~ S5-4) MODE
STEREO
REV
L + R
L
R
S2 PHONO INPEDANCE
S2-1 S2-2 S2-3
25KΩ 50KΩ 100KΩ
NOW IN (50K) POSITION
S3 TAPE MONITOR
TAPE 1
SOURCE
TAPE 2
S4 REC MODE
TAPE 1→2
SOURCE
TAPE 2→1
TR501,506 2SD390A
TR502,503 2SC1509
TR504,505 2SA777
TR601 2SA684
TR602,603 2SC1318
BOTTOM VIEW
B C E
TR101~104, 201,202, 2SA722
TR107~108, 502,503, 2SC1509
TR109,110,504,505 2SA777
TR203,301,302,403 2SC1328
TR204,602,603 2SC1318
TR205 2SA720
TR401 ~02 2SA640-AD
TR406 2SC828
TR601 2SA684
TR105,106 2SC1509F
TR409 2SC793
TR410 2SA663
E C B
TR404,408 2SA794
TR405,407 2SC1567
BLK
GRN
D52 S2HB10
D501 C08P-1
D502 C08P-1R
D401,402 MA150
D503,504 10D1
D511
D505,506 EQA1124A
D510
D507 EQAC106
D508 EQA115R
D509 EQA 105R
TOP VIEW
TR501,506 2SD390A

Notes :

S1-1 ~ S1-4 : Selector switch in "PHONO 1" position.
PHONO 2↔PHONO 1↔TUNER↔AUX 1↔AUX 2

S2-1 ~ S2-3 : PHONO impedance selector switch in "50kΩ" position.

S3 : Tape monitor switch in "SOURCE" position.

S4 : Tape deck recording mode switch in "SOURCE" position.

S5-1 ~ S5-4 : Mode switch in "STEREO" position.
REV↔STEREO↔L+R↔L↔R

S6 : Tone switch in "ON" position. (Tone controls are operated position.)

S7 : Loudness switch in "OFF" position.

S8 : Low filter switch in "OFF" position.

S9 : High filter switch in "OFF" position.

S10 : Main speaker switch in "ON" position.

S11 : Remote speaker switch in "ON" position.

S12 : Power source switch in "OFF" position.

S13-1 -- S13-4 : Power source voltage selcetor switch in "110V" position.
110V↔120V↔220V↔240V

DC voltage measurements are taken with DC VTVM from chassis ground.

ORDER NO. AD-7601-070

Service Manual

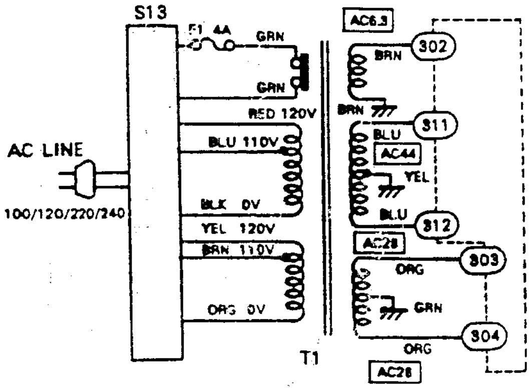
Supplementary-1

Stereo Integrated Amplifier
ODEL SU-3500

- ∗ This supplementary-1 service manual includes only the changes of Model SU-3500 service manual (ORDER NO. AD-7303-070).
- ∗ This supplementary-1 service manual should be filed with the service manual for Model SU-3500 (ORDER NO. AD-7303-070).
- ∗ When servicing Model SU-3500, this service manual and the SU-3500 (ORDER NO. AD-7303-070) service manual should be used together.

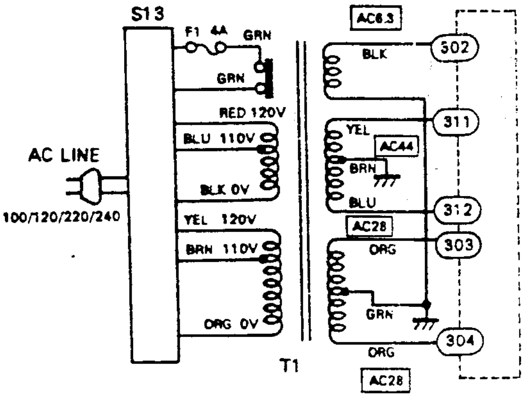
■ A revised edition of Schematic Diagram for Model SU-3500

(Present)


S13
F1 4A
GRN
GRN
RED 120V
BLU 110V
AC LINE
100/120/220/240
BLK 0V
YEL 120V
BRN 110V
ORG 0V
T1
AC6.3
302
BRN
BRN
311
BLU
AC44
YEL
BLU
312
AC28
303
ORG
GRN
304
ORG
AC28

➡

(After change)


S13
F1 4A
GRN
GRN
RED 120V
BLU 110V
AC LINE
100/120/220/240
BLK 0V
YEL 120V
BRN 110V
ORG 0V
T1
AC6.3
BLK
302
311
YEL
AC44
BRN
BLU
312
AC28
ORG
303
GRN
304
ORG
AC28

■ Replacement Parts List

OLD

Ref. No.	Part No.	Description	Per Set (Pcs.)
T1	SLTA5Q24S	Power Transformer	1
S12	SSLA20S	Power Source Switch	1
F1	XBAS2A4001	Fuse, 4A Power Source	1
F4	XBAS2B2002	Fuse, 2A Power Source	1
CA16	SBCA51	Button, Phono Impedance Sw.	3
CA41	SJP9103	Short Pin Plug, Phono 2 Terminal	2
CH3	SJJA14	Jack, Headphones	1
P5	SPNA230A	Carton Box, Inner	1

➡

NEW

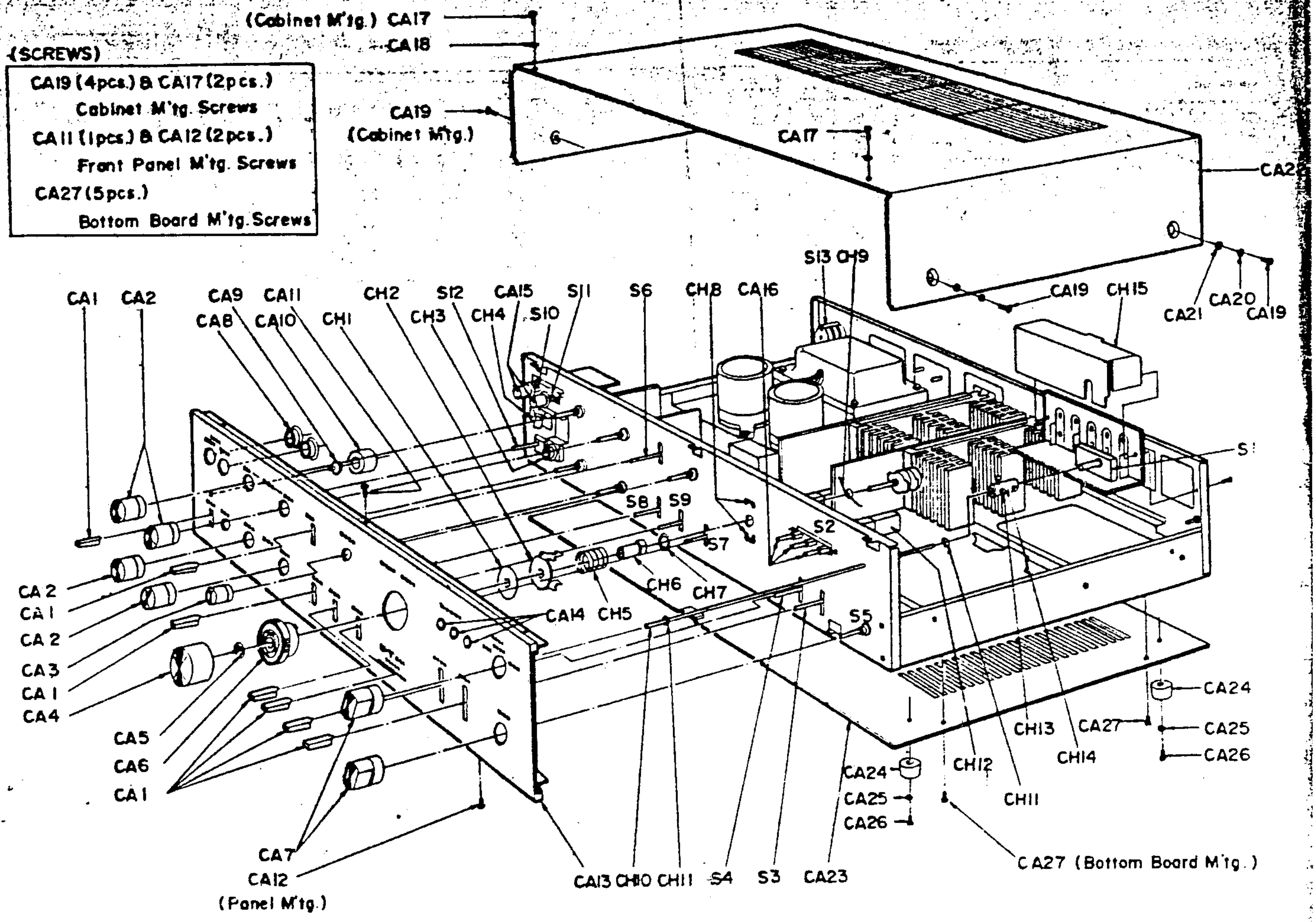
Ref. No.	Part No.	Description	Per Set (Pcs.)
T1	SLTA5Q27S	Power Transformer	1
S12	SSLA27-1S	Power Source Switch	1
F1	XBA2E40NS5	Fuse, 4A Power Source	1
F4	XBA2K20NS5	Fuse, 2A Power Source	1
CA16	SBCA51-1	Button, Phono Impedance Sw.	3
CA41	SJPA11	Short Pin Plug, Phono 2 Terminal	2
CH3	SJJA14-1	Jack, Headphones	1
P5	SPNA230B	Carton Box, Inner	1

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

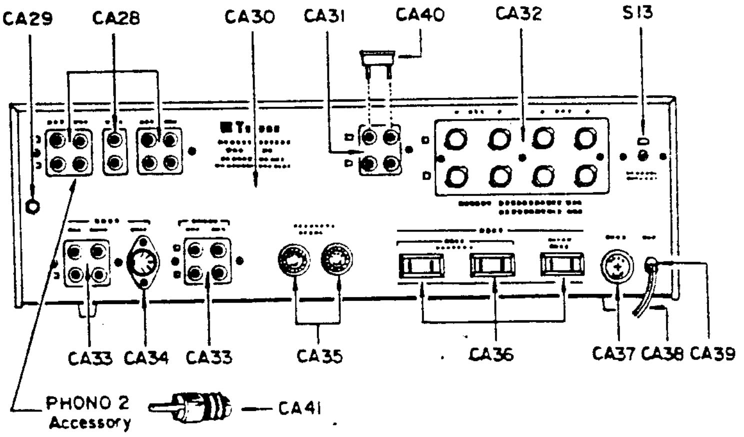
Printed in Japan ®

■ CABINET & CHASSIS PARTS LOCATION

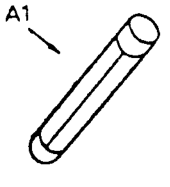

(SCREWS)

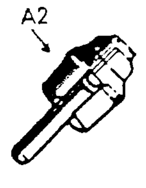
CA19 (4pcs.) & CA17 (2pcs.)
Cabinet M'tg. Screws
CA11 (1pcs.) & CA12 (2pcs.)
Front Panel M'tg. Screws
CA27 (5pcs.)
Bottom Board M'tg. Screws

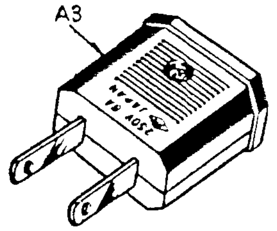
(Cabinet M'tg.) CA17
CA18
CA19 (Cabinet M'tg.)
CA17
CA2
CA21
CA20
CA19
CA19
CH15
S13 CH9
CA1
CA2
CA9
CA11
CA8
CA10
CH1
CH2
S12
CH3
CA15
CH4
S10
S11
S6
CH8
CA16
S1
S8
S9
S7
S2
CA 2
CA 1
CA 2
CA3
CA 1
CA4
CA5
CA6
CA1
CA14
CH5
CH6
CH7
S5
CA24
CA27
CA25
CA26
CH13
CH14
CH12
CH11
CA24
CA25
CA26
CA7
CA12
(Panel M'tg.)
CA13
CH10
CH11
S4
S3
CA23
CA27 (Bottom Board M'tg.)

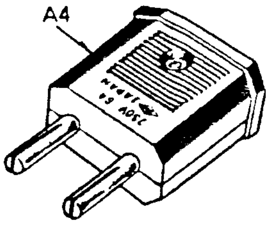

CA29
CA28
CA30
CA31
CA40
CA32
S13
CA33
CA34
CA33
CA35
CA36
CA37
CA38
CA39
PHONO 2
Accessory
CA41

■ ACCESSORIES







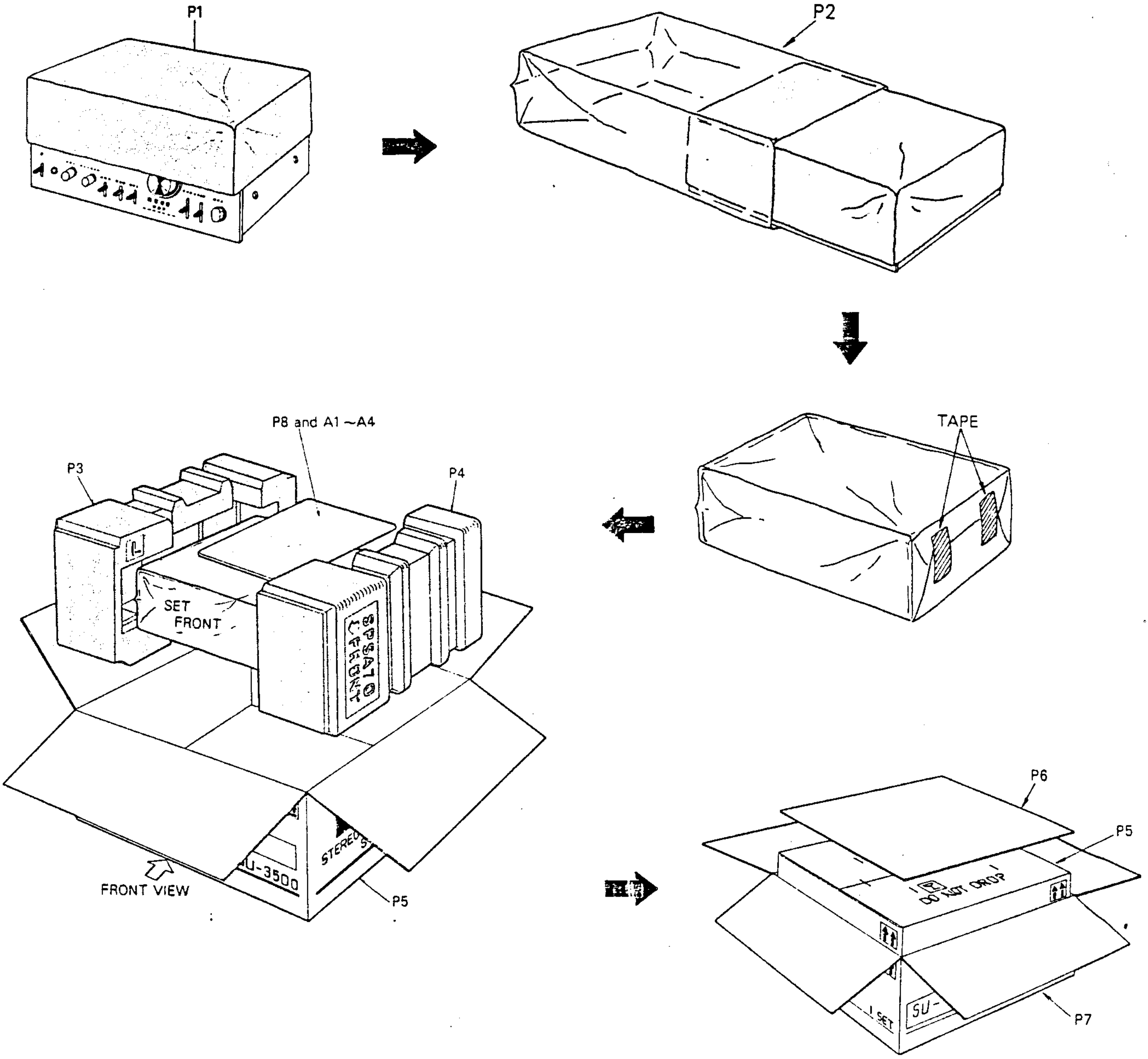


Ref No	Part No	Description	Per Set (Pcs)	Remarks
		VARIABLE RESISTORS		
VR1	EVF54A082252	250kΩ(B) Balance Control	1	○ X
VR2	EVG63A041BF5	250kΩ(B) Volume Control	1	○ X
VR201(×2) 202(×2)	EVC82A082C15	100kΩ(C) Bass & Treble Control	4	○ X
VR401(×2)	EVLS0AA00B54	50kΩ(B) DC Unbalance Adjustment	2	X
VR402(×2)	EVLS0AA00B52	500Ω(B) ICQ Adjustment	2	X
VR501	EVLS3AA00B53	5kΩ(B) Voltage Stabilizer Adjustment	1	X
VR502	EVLS3AA00B23	2kΩ(B) Voltage Stabilizer Adjustment	1	X
		CAPACITORS		
C202(×2)	ECCD1H040C	4pF. 50WV ±0 25pF Ceramic	2	Z
C209(×2)	ECCD1H180K	18pF. 50WV ±10%. Ceramic	2	Z
C212(×2)	ECCD1H220K	22pF. 50WV ±10% Ceramic	2	Z
C105.106	ECCD1H390K	39pF. 50WV ±10%. Ceramic	2	Z
C402(×2)	ECCD1H101K	100pF. 50WV ±10%. Ceramic	2	Z
C403(×2)	ECCD2H100K	10pF. 500WV ±10% Ceramic	2	Z
C111.112	ECCD2H150K	15pF. 500WV. ±10%. Ceramic	2	○ Z
C404(×2). 405(×2)	ECCD2H101K	100pF. 500WV. ±10%. Ceramic	4	Z
C408(×2)	ECKD1H821KB	820pF 50WV. ±10%. Ceramic	2	Z
C125.126.135. 136.210(×2). 301.302	ECKD2H821KB	820pF. 500WV. ±10%. Ceramic	8	Z
C407(×2)	ECKD1H102PF	0.001 μF. 50WV. $^{+100}_{-0}$ %. Ceramic	2	Z
C12.107.108. 129.130	ECKE1H103PF	0 01 μF. 50WV $^{+100}_{-0}$ %. Ceramic	5	Z
C1.2	ECQU2A103MD	0.01 μF. 250VAC. ±20%. Polyester	2	Z
C303.304	ECQM05152KZ	0 0015 μF. 50WV. ±10% Polyester	2	Z
C119.120	ECQM05272JZ	0 0027 μF. 50WV ± 5%. Polyester	2	Z
C131.132	ECQM05392JZ	0 0039 μF. 50WV ± 5%. Polyester	2	Z
C211(×2).526. 527	ECQM05103KZ	0 01 μF. 50WV ±10%. Polyester	4	Z
C213(×2)	ECQM05223KZ	0 022 μF. 50WV ±10% Polyester	2	Z
C307.308	ECQM05333KZ	0 033 μF. 50WV ±10%. Polyester	2	Z
C305.306	ECQM05473KZ	0.047 μF. 50WV. ±10%. Polyester	2	Z
C531.532	ECQM05104KZ	0 1 μF. 50WV. ±10%. Polyester	2	Z
C214(×2)	ECQM05224KZ	0.22 μF. 50WV. ±10%. Polyester	2	Z
C701.702	ECQM1473M	0 047 μF. 125WV. ± 20%. Polyester	2	Z
C123.124	ECQS1361JZ	360pF. 125WV. ± 5%. Styrol	2	Z
C121.122	ECQS1391JZ	390pF. 125WV ± 5%. Styrol	2	Z
C11.109.110. 113.114. 203(×2). 406(×2)	ECEA6V33	33 μF. 6 3WV Electrolytic	9	Y
C207(×2)	ECEA16V47	47 μF. 16WV. Electrolytic	2	Y
C208(×2)	ECEA16N47	47 μF. 16WV Non Palar Electrolytic	2	○ Y
C401(×2)	ECAG25ER68X	0 68 μF. 25WV Electrolytic	2	Y
C101.102	ECSZ25EF3R3	3 3 μF. 25WV Electrolytic	2	Y
C206(×2)	ECEA25V4R7	4 7 μF. 25WV Electrolytic	2	Y
C133.525	ECEA25V33	33 μF 25WV. Electrolytic	2	Y
C204(×2).313. 314.315.316. 521.522.523. 524	ECEA25V47	47 μF 25WV Electrolytic	10	Y
C528	ECEA25V100	100 μF. 25WV. Electrolytic	1	Y
C601	ECEA25V220V	220 μF. 25WV Electrolytic	1	○ Y
C205(×2).117. 118.311.312	ECEA50NR47X	0 47 μF. 50WV. Non Palar Electrolytic	6	Y
C201(×2). 309.310	ECEA50VR47G	0 47 μF. 50WV. Electrolytic	4	Y
C115.116.127. 128.509.510 513.514.515 516.517.518. 519.520	ECEA50V47	47 μF. 50WV. Electrolytic	14	Y
C529	ECEA50V100	100 μF. 50WV Electrolytic	1	Y
C530	ECEA50V100V	100 μF. 50WV Electrolytic	1	○ Y
C511.512	ECEA50V330	330 μF. 50WV. Electrolytic	2	Y
C3.4	ECEM50R103E	10000 μF. 50WV. Electrolytic	2	○ Y
C502.503.508	ECEA63V47L	47 μF. 63WV. Electrolytic	3	○ Y
C501.504.505. 506.507	ECEA63V220L	220 μF. 63WV. Electrolytic	5	○ Y
		COMPONENT COMBINATIONS		
M51.52.501. 502	RXAF103P22HD	Hum Canceler 0 01 μF 500WV	4	Y
		SPEAKERS PROTECTION RELAY		
	SSYA1	Relay Power Source Circuit	1	X
		SWITCHES		
S1	SSRA58	Selector Switch	1	○ X
S2	SSHA43S	Phono Impedance Selector Switch	1	○ X
S3	SSLA22S	Tape Monitor Switch	1	○ X

Ref No	Part No	Description	Per Set (Pcs)	Remarks
S4	SSLA21S	Recording Mode Switch	1	○ X
S5	SSRA57	Mode Switch	1	○ X
S6	SSLA24S	Tone Switch	1	○ X
S7.8.9	SSLA23S	Loudness. Low & High Filter Switch	3	○ X
S10.11	SSHA42	Speakers Switch	1	○ X
S12	SSLA20S	Power Source Switch	1	○ X
S13	SSRA7S	Voltage Selector Switch	1	X
		FUSES and LIGHTS		
F1	XBAS2A4001	Fuse 4A Power Source	1	○ X
F2.3	XBAS1A4001	Fuse 4A Circuit Protection	2	X
F4	XBAS2B2002	Fuse. 2A Power Source	1	○ X
PL	XAM37K150	Pilot Lamp (7 5V 75mA)	1	X
		CABINET PARTS		
CA1	SBLA3	Knob Lever Switches	7	○ X
CA2	SBNA95-2E	Knob. Bass & Treble Controls	4	○ X
CA3	SBNA116	Knob. Balance Control	1	○ X
CA4	SBNA114E	Knob. Volume Control	1	○ X
CA5	XUC8FZ	E-ring. Pre-Set	1	Y
CA6	SBNA115E	Knob. Pre-Set	1	○ X
CA7	SBSA8	Knob. Selector & Mode Switch	2	○ X
CA8	SGXA6004	Bracket. Speaker Switch Button	2	Z
CA9	SGLA9	Panel Light	1	○ Z
CA10	SHRA601	Bracket. Pilot Lamp	1	Z
CA11	XSS3+6KS	Screw. Front Panel M'tg	1	Z
CA12	XTV3D8CK	Screw. Front Panel M'tg	2	Z
	→SYWA160A	Front Panel. Complete	1	○ Y
CA13	SGWA1210	Panel │ Not Available Order	(1)	
CA14	SGXA57	Bracket │ SYWA 160A	(3)	
CA15	SBCA50	Button. Speaker Switches	2	○ Y
CA16	SBCA51	Button. Phono Impedance Switches	3	○ Y
CA17	XSB3+8KS	Screw. Cabinet M'tg	2	Z
CA18	XWG3K	Washer. Cabinet M'tg Screw	2	Z
CA19	XSB4+10KS	Screw. Cabinet M'tg	4	Z
CA20	XWA4BK	Spring Washer. Cabinet M'tg Screw	4	Z
CA21	XWG4K	Washer. Cabinet M'tg Screw	4	Z
CA22	SKAA691	Cabinet	1	○ Y
	→SYUA81A	Bottom Board. Complete	1	○ Y
CA23	SKUA351	Bottom Board Only	1	○ Z
CA24	SHGA929	Leg	4	Z
CA25	XWG3F10	Washer. Leg M'tg Screw	4	Z
CA26	XTN3D12B	Screw. Leg M'tg.	4	Z
CA27	XTB4+8BR	Red Screw. Bottom Board M'tg	6	Z
CA28	SJFA3015	Terminal Phono, Tuner & Aux Input	1	○ Y
	→SYPA252AS	Rear Panel. Complete	1	○ Y
CA29	SNEA404	Nut. Ground Terminal	1	Z
	SNEA204-2S	Volt. Ground Terminal	1	Z
CA30	SGPA363A	Rear Panel Only	1	○ Z
CA31	SJFA3409	Terminal. Pre & Main Amp Connector	1	Y
CA32	SJFA4807	Terminal. Speakers	1	○ Y
CA33	SJFA3407	Terminal Tape Monitor 1 & 2	2	Y
CA34	RJS31-1	DIN Socket. Tape Monitor	1	Y
CA35	SJFA107	Holder. Circuit Protection Fuses	2	Y
CA36	SJSA66	Sodket. AC Outlet	3	○ Y
CA37	SJFA1	Holder. Power Source Fuses	1	○ Y
CA38	SJAA3	AC Cord/with AC Plug	1	Y
CA39	RHR111	Bushing. AC Cord	1	Z
CA40	SJPA9201	Short Pin. Pre & Main Amplifier	2	X
CA41	SJP9103	Short Pin Plug. Phono 2 Terminal	2	Y
		CHASSIS PARTS		
CH1	SNWA951	Slider. Pre-Set	1	Z
CH2	SUWA167-1	Mounting. Pre-Set	1	Z
CH3	SJJA14	Jack Headphones	1	Y
CH4	SMZA6091	Bracket. Pilot Lamp	1	Z
CH5	SUSA33	Coil Type Spring. Pre-Set	1	Z
CH6	SUHA8	Nut. Volume & Pre-Set	1	Z
CH7	XWV8	Washer Nut	1	Z
CH8	SHGA943	Rubber Bracket. Pre-Set Mounting	2	Z
CH9	SUSA34-1	Spring Pre-Set Mounting	1	Z
CH10	SUBA18	Coupling Rod. Selector Switch	1	○ Z
CH11	XUC5FW	E-ring Coupling Rod	2	Y
CH12	SJSA65	Socket Main & Tone Amp Circuit	6	Y
CH13	XXAR3H6S	Screw. Coupler M'tg	3	Z
CH14	SUBA21S	Coupler. Selector switch & Coupling Rod	1	○ Z
CH15	SMWA21S	Cover Input Terminal	1	○ Z
		ACCESSORIES		
A1	XBAS1A4001	4A Fuse Circuit Protection	2	Y
A2	RJP5	Pin Plug	4	Y
A3	RJP16AS	AC Plug	1	Y
A4	RJP 7AS	AC Plug	1	Y

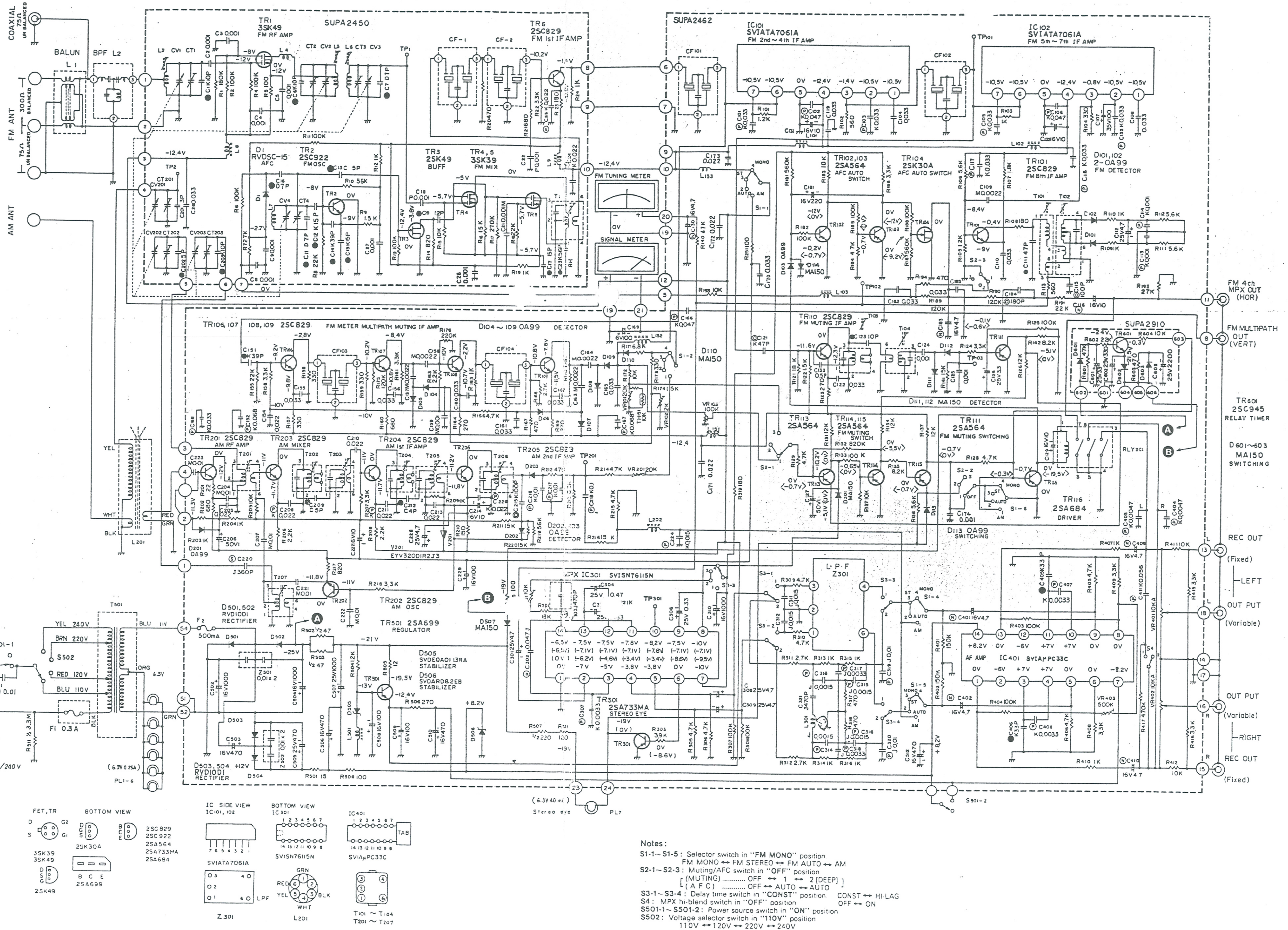
Ref No	Part No	Dercription	Per Set (Pcs)	Remarks
		PACKING PARTS		
P1	SPPA16-1	Soft Cover	1	Z
P2	SPP163	Polyethylene Bag	1	Z
P3	SPSA73	Pad. Left Side	1	○ Z
P4	SPSA70	Pad. Right Side	1	○ Z
P5	SPNA230A	Carton Box. Inner	1	○ Z
P6	SPSA30	Pad. Between Inner & Outer Carton Box	1	Z
P7	SPGA440A	Carton Box. Outer	1	○ Z
P8	SQFA191	Printed Matter. Complete	1	○ Y
	-SQXA5114	Instructions Book (Order SQFA191)	(1)	

■ PACKINGS


P1
P2
TAPE
P8 and A1 ~A4
P3
P4
SET FRONT
SPSA70 L FRONT
L
FRONT VIEW
STEREO
U-3500
P5
P6
P5
DO NOT DROP
1 SET
SU-
P7

Printed in Japan
2500-Ⓚ

Schematic. Diagram .... Model ST-3500 (This schematic diagram may be modified at any


COAXIAL 75Ω UNBALANCED
FM ANT 300Ω BALANCED
75Ω UNBALANCED
AM ANT
BALUN L1
BPF L2
SUPA2450
TR1 3SK49 FM RF AMP
TR2 2SC922 FMOSC
D1 RVDSC-15 AFC
TR3 2SK49 BUFF
TR4,5 3SK39 FM MIX
TR6 2SC829 FM 1st IF AMP
CF-1
CF-2
TP1
SUPA2462
IC101 SVIATA7061A FM 2nd~4th IF AMP
IC102 SVIATA7061A FM 5th~7th IF AMP
CF101
CF102
TP101
FM TUNING METER
SIGNAL METER
TR102,103 2SA564 AFC AUTO SWITCH
TR104 2SK30A AFC AUTO SWITCH
TR101 2SC829 FM 8th IF AMP
D101,102 2-OA99 FM DETECTOR
TR106,107 108,109 2SC829 FM METER MULTIPATH MUTING IF AMP
D104~109 OA99 DETECTOR
D110 MA150
CF103
CF104
TR110 2SC829 FM MUTING IF AMP
SUPA2910
FM 4ch MPX OUT (HOR)
FM MULTIPATH OUT (VERT)
TR601 2SC945 RELAY TIMER
D601~603 MA150 SWITCHING
TR113 2SA564
TR114,115 2SA564 FM MUTING SWITCH
TR111 2SA564 FM MUTING SWITCHING
TR116 2SA684 DRIVER
D111,112 MA150 DETECTOR
D113 OA99 SWITCHING
RLY201
TR201 2SC829 AM RF AMP
TR203 2SC829 AM MIXER
TR204 2SC829 AM 1st IF AMP
TR205 2SC829 AM 2nd IF AMP
D202,203 OA99 DETECTOR
D201 OA99
V201 EYV320D1R2J3
L201
YEL
WHT
BLK
RED
GRN
TR202 2SC829 AM OSC
MPX IC301 SVISN76115N
L·P·F Z301
TR301 2SA733MA STEREO EYE
IC401 SVIAμPC33C AF AMP
REC OUT (Fixed)
LEFT
OUT PUT (Variable)
RIGHT
REC OUT (Fixed)
T501
S501-1
S502
YEL 240V
BRN 220V
RED 120V
BLU 110V
F1 0.3A
AC LINE 110/120/220/240V
F2 500mA
D501,502 RVD1OD1 RECTIFIER
D503,504 RVD1OD1 RECTIFIER
TR501 2SA699 REGULATOR
D505 SVDEQA01 13RA STABILIZER
D506 SVDARD8.2EB STABILIZER
D507 MA150
(6.3V 0.25A) PL1~6
(6.3V 40mA) Stereo eye PL7
S501-2
FET,TR
BOTTOM VIEW
3SK39 3SK49
2SK30A
2SC829 2SC922 2SA564 2SA733MA 2SA684
2SK49
B C E 2SA699
IC SIDE VIEW IC101,102
SVIATA7061A
BOTTOM VIEW IC301
SVISN76115N
IC401
SVIAμPC33C
TAB
Z301
LPF
GRN RED YEL BLK WHT
L201
T101 ~ T104
T201 ~ T207

Notes:

S1-1~S1-5: Selector switch in "**FM MONO**" position.
FM MONO ↔ FM STEREO ↔ FM AUTO ↔ AM

S2-1~S2-3: Muting/AFC switch in "**OFF**" position
[(MUTING) .... OFF ↔ 1 ↔ 2 [DEEP]
(A F C) .... OFF ↔ AUTO ↔ AUTO]

S3-1~S3-4: Delay time switch in "**CONST**" position CONST ↔ HI-LAG

S4: MPX hi-blend switch in "**OFF**" position OFF ↔ ON

S501-1~S501-2: Power source switch in "**ON**" position

S502: Voltage selector switch in "**110V**" position
110V ↔ 120V ↔ 220V ↔ 240V

DC voltage measurements are taken with VTVM from chassis ground.

( ) .... FM stereo signal reception

⟨ ⟩ .... Muting switch to ON position and FM mono (or stereo) signal reception

No Mark .... Muting switch to ON position and FM/AM non-signal reception.

REPLACEMENT PARTS LIST

1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. X-Z mark: X mark parts will cover 80% of repair needs. X+Y mark parts will cover 95% of repair needs. Z mark parts are less necessary

1. Die meisten mechanischen Teile sind mit Teilnummern versehen. Bitte geben Sie diese Nummern an, wenn die Teile keine Bezugsnummern haben.
2. Gruppen X-Z: Teile der Gruppe X machen 80% des Ersatzteilbedarfes aus. Teile der Gruppen X und Y machen 95% des Ersatzteilbedarfes aus. Teile der Gruppe Z werden seltener benötigt.

TRANSISTORS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
R101.102.103 104.201 (×2) 202(×2)	2SA722T	Equalizer Differential & Tone Differential Amplifier	8	X
R106 106	2SC1509©O	Equalizer Amplifier	2	O X
R203(×2) 301 302 403(×2)	2SC1328T	Tone, Filter & Main Pre Driver Amplifier	6	X
R205(×2)	2SA720R	Tone Control Amplifier	2	X
R204(×2) 602 603	2SC1318R	Tone Amp & Speaker Protection Switching	4	X
R109 110.504 505	2SA777Q	Equalizer Amp., An Error Voltage Detector & DC Amp	4	X
R107 108.502 503	2SC1509Q	Equalizer Amp., DC Amp & An Error Voltage Detector	4	X
R401(×2) 402(×2)	2SA640AD-R	Main Amp. Differential Amplifier	4	X
R406(×2)	2SC828R	Thermal Compensation	2	X
R404(×2) 408(×2)	2SA794R	Pre Driver & Driver Amplifier	4	O X
R405(×2) 407(×2)	2SC1567R	Pre Driver & Driver Amplifier	4	O X
TR409(×2)	2SC793Y	Power Amplifier	2	O X
TR410(×2)	2SA663Y	Power Amplifier	2	O X
TR501 506	2SD390A-O	DC Voltage Control	2	O X
TR601	2SA684Q	Speaker Protection Relay Switching	1	O X

DIODES

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
D52	SVD-AS2HB10	Rectifier	1	X
D401(×2) 402(×2)	MA150	Thermal Correction	4	X
D501	SVDAC08P-1	Rectifier, Positive Output	1	X
D502	SVDAC08P-1R	Rectifier, Negative Output	1	X
D503 504.511	RVD10D1	Shock Noise Cancel & Rectifier	3	X
D505 506.510	SVDAEQA0124R	24V Zener, Shock Noise Cancel	3	O X
D507	SVDAEQA0106R	6V Zener, Voltage Stabilizer	1	O X
D508	SVDAEQA0115R	15V Zener, Voltage Dropper	1	O X
D509	SVDAEQA0109R	9V Zener, Voltage Dropper	1	O X

TRANSFORMER and THERMISTORS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
T1	SLTA5024S	Power Transformer	1	O X
TH401(×2)	RRT251	Thermistor Driver Circuit	2	Y

RESISTORS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
R153 154	ERD14TJ470	47Ω 1/4W ±5% Carbon	2	Y
R223(×2)	ERD14TJ101	100Ω 1/4W ±5% Carbon	2	Y
R155 210(×2)	ERD14TJ331	330Ω 1/4W ±5% Carbon	3	Y
R212(×2) 213(×2)	ERD14TJ391	390Ω 1/4W ±5% Carbon	4	Y
R137 138 215(×2) 414(×2)	ERD14TJ471	470Ω 1/4W ±5% Carbon	6	Y
R221(×2)	ERD14TJ561	560Ω 1/4W ±5% Carbon	2	Y
R416(×2)	ERD14TJ681	680Ω 1/4W ±5% Carbon	2	Y
R151 152	ERD14TJ821	820Ω 1/4W ±5% Carbon	2	Y
R313 314 402(×2)	ERD14TJ102	1kΩ 1/4W ±5% Carbon	4	Y
R123 124	ERD14TJ122	1.2kΩ 1/4W ±5% Carbon	2	Y
R109 110 111 112.202(×2) 225(×2) 229(×2) 405(×2) 415(×2)	ERD14TJ182	1.8kΩ 1/4W ±5% Carbon	14	Y
R103 104.521 523	ERD14TJ222	2.2kΩ 1/4W ±5% Carbon	4	Y
R141 142 516	ERD14TJ272	2.7kΩ 1/4W ±5% Carbon	3	Y
R113 114 325 326 327.328 424(×2)	ERD14TJ332	3.3kΩ 1/4W ±5% Carbon	8	Y
R119 120 408(×2)	ERD14TJ392	3.9kΩ 1/4W ±5% Carbon	4	Y
R220(×2) 321.322.601	ERD14TJ472	4.7kΩ 1/4W ±5% Carbon	5	Y
R208(×2) 211(×2) 222(×2) 226(×2) 524.525	ERD14TJ682	6.8kΩ 1/4W ±5% Carbon	10	Y
R206(×2) 605.606	ERD14TJ822	8.2kΩ 1/4W ±5% Carbon	4	Y
R135.136. 208(×2).303. 304.406(×2) 407(×2).504. 505.506.507. 508.509.532 533.608. 609	ERD14TJ103	10kΩ 1/4W ±5% Carbon	20	Y
R305.306	ERD14TJ123	12kΩ 1/4W ±5% Carbon	2	Y
R207(×2) 208(×2) 224(×2) 227(×2).512	ERD14TJ153	15kΩ 1/4W ±5% Carbon	9	Y
R115.116.117. 118.228(×2) 517	ERD14TJ183	18kΩ 1/4W ±5% Carbon	7	Y
R307.308	ERD14TJ223	22kΩ 1/4W ±5% Carbon	2	Y
R604	ERD14TJ273	27kΩ 1/4W ±5% Carbon	1	Y
R183.184.526 527.607	ERD14TJ333	33kΩ 1/4W ±5% Carbon	5	Y
R412(×2).515 518	ERD14TJ393	39kΩ 1/4W ±5% Carbon	4	Y
R219(×2).603	ERD14TJ563	56kΩ 1/4W ±5% Carbon	3	Y
R181.182 218(×2).319 320.403(×2.) 530.531	ERD14TJ683	68kΩ 1/4W ±5% Carbon	10	Y
R301.302	ERD14TJ823	82kΩ 1/4W ±5% Carbon	2	Y
R139.140.149. 150.214(×2)	ERD14TJ104	100kΩ 1/4W ±5% Carbon	6	Y
R2.3.309.310	ERD14TJ124	120kΩ 1/4W ±5% Carbon	4	Y
R217(×2)	ERD14TJ154	150kΩ 1/4W ±5% Carbon	2	Y
R143.144.147. 148	ERD14TJ184	180kΩ 1/4W ±5% Carbon	4	Y
R323.324	ERD14TJ224	220kΩ 1/4W ±5% Carbon	2	Y
R1.4	ERD14TJ274	270kΩ 1/4W ±5% Carbon	2	Y
R409(×2)	ERD14TJ824	820kΩ 1/4W ±5% Carbon	2	Y
R145 146.311. 312	ERD14TJ105	1MΩ 1/4W ±5% Carbon	4	Y
R107.108	ERD14TSJ393	39kΩ 1/4W ±5% Carbon	2	Y
R317.318 404(×2)	ERD14TSJ473	47kΩ 1/4W ±5% Carbon	4	Y
R204(×2)	ERD14TSJ154	150kΩ 1/4W ±5% Carbon	2	Y
R105.106 401(×2)	ERD14TSJ184	180kΩ 1/4W ±5% Carbon	4	Y
R101.102 201(×2) 203(×2)	ERD14TSJ224	220kΩ 1/4W ±5% Carbon	6	Y
R315 316	ERD14TSJ334	330kΩ 1/4W ±5% Carbon	2	Y
R418(×2) 419(×2)	ERD14FJ3R3	3.3Ω 1/4W ±5% Carbon	4	Y
R413(×2) 417(×2)	ERD14FJ470	47Ω 1/4W ±5% Carbon	4	Y
R420(×2) 421(×2)	ERD14FJ680	68Ω 1/4W ±5% Carbon	4	Y
R127 128 129 130	ERD14FJ181	180Ω 1/4W ±5% Carbon	4	Y
R131 132 133 134	ERD14FJ221	220Ω 1/4W ±5% Carbon	4	Y
R121.122 125 126	ERD14FJ331	330Ω 1/4W ±5% Carbon	4	Y
R410(×2) 411(×2)	ERD14FJ471	470Ω 1/4W ±5% Carbon	4	Y
R510.511.520 522	ERD14FJ102	1kΩ 1/4W ±5% Carbon	4	Y
R602	ERD12TJ471	470Ω 1/2W ±5% Carbon	1	Y
R519	ERD12TJ472	4.7kΩ 1/2W ±5% Carbon	1	Y
R501.502 503	ERD18FJ2R2	2.2Ω 1/8W ±5% Carbon	3	Y
R513.514	ERD18FJ100	10Ω 1/8W ±5% Carbon	2	O Y
R701.702	ERX2ANJ100	10Ω 2W ±5% Metallic	2	O Y
R422(×2) 423(×2)	ERX3ANJR47	0.47Ω 3W ±5% Metallic	4	O Y
R703.704	ERG2ANJ471	470Ω 2W ±5% Metallic	2	O Y

VARIABLE RESISTORS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
VR1	EVF34A082Z52	250kΩ(MN) Balance Control	1	O X
VR2	EVG63A041BF5	250kΩ(B) Volume Control	1	O X
VR201(×2) 202(×2)	EVC62A082C15	100kΩ(C) Bass & Treble Control	4	O X
VR401(×2)	EVLS0AA00B54	50kΩ(B) DC Unbalance Adjustment	2	X
VR402(×2)	EVLS0AA00B52	500Ω(B) ICO Adjustment	2	X
VR601	EVLS3AA00B53	5kΩ(B) Voltage Stabilizer Adjustment	1	X
VR602	EVLS3AA00B23	2kΩ(B) Voltage Stabilizer Adjustment	1	X

CAPACITORS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
C202(×2)	ECCD1H040C	4pF 50WV ±0.25pF Ceramic	2	Z
C209(×2)	ECCD1H180K	18pF 50WV ±10% Ceramic	2	Z
C212(×2)	ECCD1H220K	22pF 50WV ±10% Ceramic	2	Z
C105.106	ECCD1H390K	39pF 50WV ±10% Ceramic	2	Z
C402(×2)	ECCD1H101K	100pF 50WV ±10% Ceramic	2	Z
C403(×2)	ECCD2H100K	10pF 500WV ±10% Ceramic	2	Z
C111.112	ECCD2H150K	15pF 500WV ±10% Ceramic	2	O Z
C404(×2) 405(×2)	ECCD2H101K	100pF 500WV ±10% Ceramic	4	Z
C408(×2)	ECKD1H821KB	820pF 50WV ±10% Ceramic	2	Z
C125 126 135. 136.210(×2) 301.302	ECKD2H821KB	820pF 500WV ±10% Ceramic	8	Z
C407(×2)	ECKD1H102PF	0.001μF 50WV $^{+100}_{-0}$% Ceramic	2	Z
C12.107.108. 129.130	ECKE1H103PF	0.01μF 50WV $^{+100}_{-0}$% Ceramic	5	Z
C1.2	ECQU2A103MD	0.01μF 250VAC ±20% Polyester	2	Z
C303.304	ECQM05152KZ	0.0015μF 50WV ±10% Polyester	2	Z
C119 120	ECQM05272JZ	0.0027μF 50WV ± 5% Polyester	2	Z
C131 132	ECQM05392JZ	0.0039μF 50WV ± 5% Polyester	2	Z
C211(×2).526 527	ECQM05103KZ	0.01μF 50WV ±10% Polyester	4	Z
C213(×2)	ECQM05223KZ	0.022μF 50WV ±10% Polyester	2	Z
C307 308	ECQM05333KZ	0.033μF 50WV ±10% Polyester	2	Z
C305 306	ECQM05473KZ	0.047μF 50WV ±10% Polyester	2	Z
C531 532	ECQM05104KZ	0.1μF 50WV ±10% Polyester	2	Z
C214(×2)	ECQM05224KZ	0.22μF 50WV ±10% Polyester	2	Z
C701.702	ECQM1473M	0.047μF 125WV ± 20% Polyester	2	Z
C123 124	ECQS1361JZ	360pF 125WV ± 5% Styrol	2	Z
C121 122	ECQS1391JZ	390pF 125WV ± 5% Styrol	2	Z
C11 109 110. 113 114. 203(×2) 406(×2)	ECEA6V33	33μF 6.3WV Electrolytic	9	Y
C207(×2)	ECEA16V47	47μF 16WV Electrolytic	2	Y
C208(×2)	ECEA16N47	47μF 16WV Non Polar Electrolytic	2	O Y
C401(×2)	ECAG25ER68X	0.68μF 25WV Electrolytic	2	Y
C101 102	ECSZ25EF3R3	3.3μF 25WV Electrolytic	2	Y
C206(×2)	ECEA25V4R7	4.7μF 25WV Electrolytic	2	Y
C133 525	ECEA25V33	33μF 25WV Electrolytic	2	Y
C204(×2).313 314 315 316 521 522 523 524	ECEA25V47	47μF 25WV Electrolytic	10	Y
C528	ECEA25V100	100μF 25WV Electrolytic	1	Y
C601	ECEA25V220V	220μF 25WV Electrolytic	1	O Y
C205(×2).117 118 311 312	ECEA50NR47X	0.47μF 50WV Non Polar Electrolytic	6	Y
C201(×2) 309 310	ECEA50VR47G	0.47μF 50WV Electrolytic	4	Y
C115 116 127 128 509.510 513 514.515 516 517.518 519.520	ECEA50V47	47μF 50WV Electrolytic	14	Y
C529	ECEA50V100	100μF 50WV Electrolytic	1	Y
C530	ECEA50V100V	100μF 50WV Electrolytic	1	O Y
C511.512	ECEA50V330	330μF 50WV Electrolytic	2	Y
C3.4	ECEM50R103E	10000μF 50WV Electrolytic	2	O Y
C502.503.508	ECEA63V47L	47μF 63WV Electrolytic	3	O Y
C501 504 505 506 507	ECEA63V220L	220μF 63WV Electrolytic	5	O Y

COMPONENT COMBINATIONS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
M51 52 501. 502	RXAF103P22HD	Hum Canceler 0.01μF 500WV	4	Y

SPEAKERS PROTECTION RELAY

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
	SSYA1	Relay Power Source Circuit	1	X

SWITCHES

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
S1	SSRA58	Selector Switch	1	O X
S2	SSHA43S	Phono Impedance Selector Switch	1	O X
S3	SSLA22S	Tape Monitor Switch	1	O X
S4	SSLA21S	Recording Mode Switch	1	O X
S5	SSRA57	Mode Switch	1	O X
S6	SSLA24S	Tone Switch	1	O X
S7.8.9	SSLA23S	Loudness, Low & High Filter Switch	3	O X
S10.11	SSHA42	Speakers Switch	2	O X
S12	SSLA20S	Power Source Switch	1	O X
S13	SSRA7S	Voltage Selector Switch	1	X

FUSES and LIGHTS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
F1	XBAS2A4001	Fuse 4A Power Source	1	O X
F2.3	XBAS1A4001	Fuse 4A Circuit Protection	2	X
F4	XBAS2B2002	Fuse 2A Power Source	1	O X
PL	XAM37K150	Pilot Lamp (7.5V 75mA)	1	X

CABINET PARTS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
CA1	SBLA3	Knob Lever Switches	7	O X
CA2	SBNA95-2E	Knob Bass & Treble Controls	4	O X
CA3	SBNA116	Knob Balance Control	1	O X
CA4	SBNA114E	Knob Volume Control	1	O X
CA5	XUCBFZ	E-ring Pre-Set	1	Y
CA6	SBNA115E	Knob Pre-Set	1	O X
CA7	SBSA8	Knob Selector & Mode Switch	2	O X
CA8	SGXA6004	Bracket Speaker Switch Button	2	Z
CA9	SGLA9	Panel Light	1	O Z
CA10	SHRA601	Bracket Pilot Lamp	1	Z
CA11	XSS3+6KS	Screw Front Panel M'tg	1	Z
CA12	XTV3D8CK	Screw Front Panel M'tg	2	Z
	SYWA160A	Front Panel Complete	1	O Y
CA13	SGWA1210	Panel } Not Available Order	(1)	
CA14	SGXA57	Bracket } SYWA 160A	(3)	
CA15	SBCA50	Button Speaker Switches	2	O Y
CA16	SBCA51	Button Phono Impedance Switches	3	O Y
CA17	XSB3+8KS	Screw Cabinet M'tg	2	Z
CA18	XWG3K	Washer Cabinet M'tg Screw	2	Z
CA19	XSB4+10KS	Screw Cabinet M'tg	4	Z
CA20	XWA4BK	Spring Washer Cabinet M'tg Screw	4	Z
CA21	XWG4K	Washer Cabinet M'tg Screw	4	Z
CA22	SKAA691	Cabinet	1	O Y
	SYUA81A	Bottom Board Complete	1	O Y
CA23	SKUA351	Bottom Board Only	1	O Z
CA24	SHGA929	Leg	4	Z
CA25	XWG3F10	Washer Leg M'tg Screw	4	Z
CA26	XTN3D12B	Screw Leg M'tg	4	Z
CA27	XTB4+8BR	Red Screw Bottom Board M'tg	6	Z
CA28	SJFA3015	Terminal Phono Tuner & Aux Input	1	O Y
	SYPA252AS	Rear Panel Complete	1	O Y
CA29	SNEA404	Nut Ground Terminal	1	Z
	SNEA204-2S	Volt Ground Terminal	1	Z
CA30	SGPA363A	Rear Panel Only	1	O Z
CA31	SJFA3409	Terminal Pre & Main Amp Connector	1	Y
CA32	SJFA4807	Terminal Speakers	1	O Y
CA33	SJFA3407	Terminal Tape Monitor 1 & 2	2	Y
CA34	RJS31-1	DIN Socket Tape Monitor	1	Y
CA35	SJFA107	Holder Circuit Protection Fuses	2	Y
CA36	SJSA66	Socket AC Outlet	3	O Y
CA37	SJFA1	Holder Power Source Fuses	1	O Y
CA38	SJAA3	AC Cord with AC Plug	1	Y
CA39	RHR111	Bushing AC Cord	1	Z
CA40	SJPA9201	Short Pin Pre & Main Amplifier	2	X
CA41	SJP9103	Short Pin Plug Phono 2 Terminal	2	Y

CHASSIS PARTS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
CH1	SNWA951	Slider Pre Set	1	Z
CH2	SUWA167-1	Mounting Pre-Set	1	Z
CH3	SJJA14	Jack Headphones	1	Y
CH4	SMZA6091	Bracket Pilot Lamp	1	Z
CH5	SUSA33	Coil Type Spring Pre Set	1	Z
CH6	SUHA8	Nut Volume & Pre Set	1	Z
CH7	XWV8	Washer Nut	1	Z
CH8	SHGA943	Rubber Bracket Pre Set Mounting	2	Z
CH9	SUSA34-1	Spring Pre-Set Mounting	1	Z
CH10	SUBA18	Coupling Rod Selector Switch	1	O Z
CH11	XUC5FW	E-ring Coupling Rod	2	Y
CH12	SJSA65	Socket Main & Tone Amp Circuit	6	Y
CH13	XXAR3H6S	Screw Coupler M'tg	3	Z
CH14	SUBA21S	Coupler Selector switch & Coupling Rod	1	O Z
CH15	SMWA21S	Cover Input Terminal	1	O Z

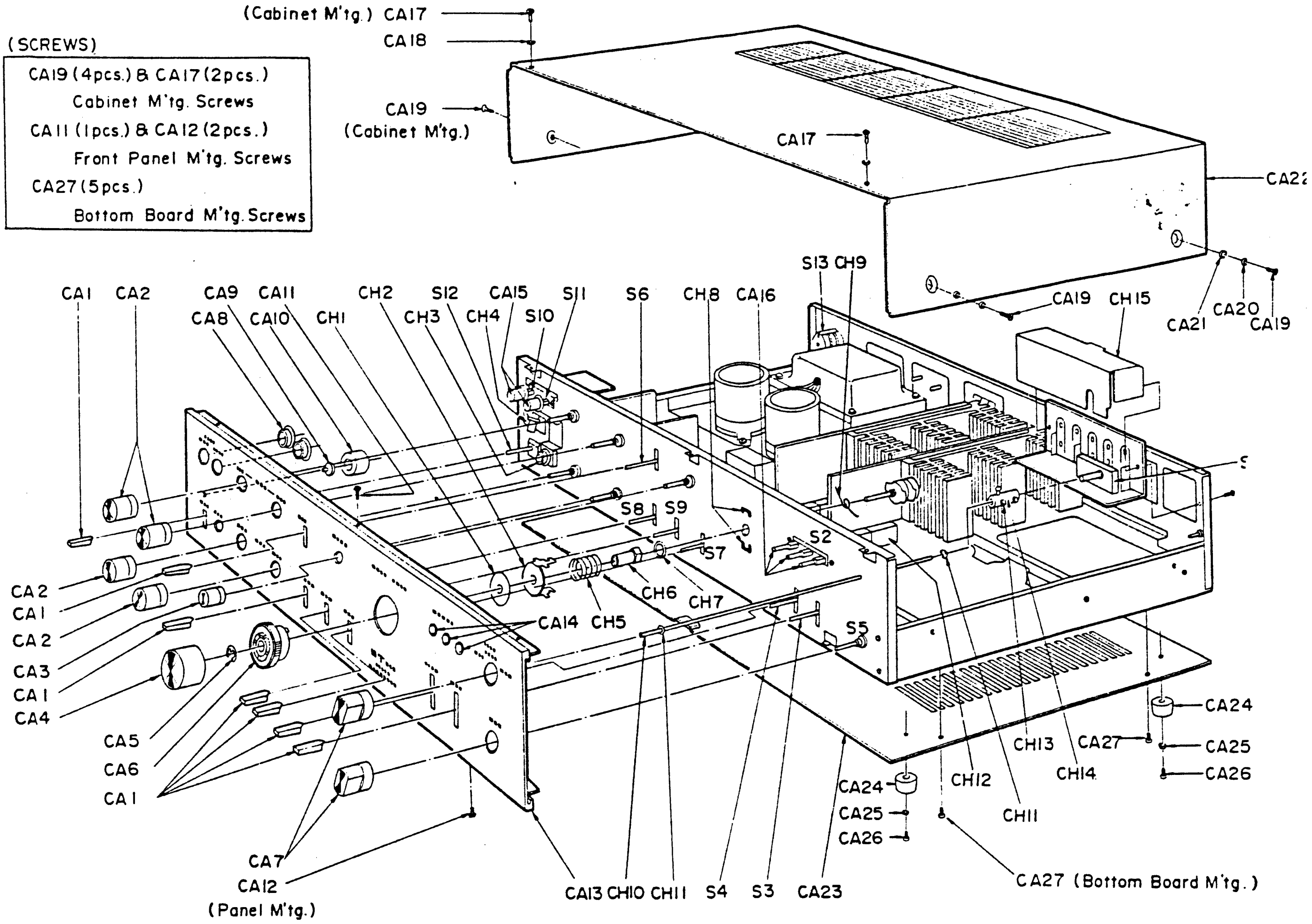
ACCESSORIES

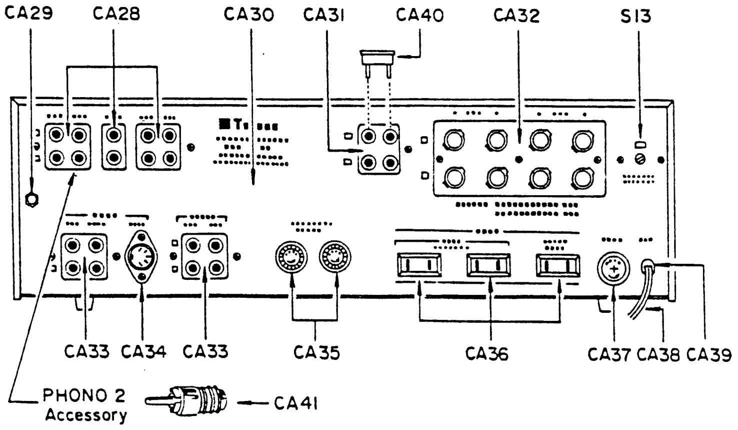
Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
A1	XBAS1A4001	4A Fuse Circuit Protection	2	Y
A2	RJP5	Pin Plug	4	Y
A3	RJP16AS	AC Plug	1	Y
A4	RJP 7AS	AC Plug	1	Y

■ CABINET & CHASSIS PARTS LOCATION

(SCREWS)

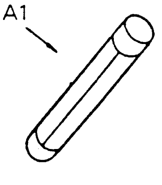
CA19 (4pcs.) & CA17 (2pcs.)
Cabinet M'tg. Screws
CA11 (1pcs.) & CA12 (2pcs.)
Front Panel M'tg. Screws
CA27 (5pcs.)
Bottom Board M'tg. Screws


(Cabinet M'tg.) CA17
CA18
CA19
(Cabinet M'tg.)
CA17
CA2
S13 CH9
CA19
CH15
CA21
CA20
CA19
CA1
CA2
CA9
CA11
CA8
CA10
CH1
CH2
S12
CA15
S11
CH3
CH4
S10
S6
CH8
CA16
S8
S9
S7
S2
CH6
CH7
CA14
CH5
S5
CA2
CA1
CA2
CA3
CA1
CA4
CA5
CA6
CA1
CA7
CA12
(Panel M'tg.)
CA13 CH10 CH11
S4
S3
CA23
CA24
CA25
CA26
CH12
CH11
CH13
CA27
CH14
CA24
CA25
CA26
CA27 (Bottom Board M'tg.)

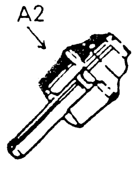

CA29
CA28
CA30
CA31
CA40
CA32
S13
CA33
CA34
CA33
CA35
CA36
CA37
CA38
CA39
PHONO 2
Accessory
CA41

■ ACCESSORIES

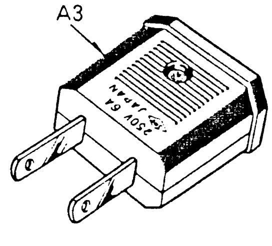
A1



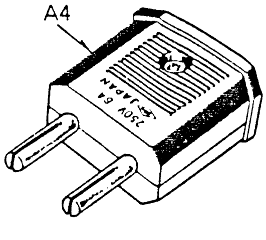
A2



A3



A4



■ REPLACEMENT PARTS LIST

NOTES :

1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. X-Z rank: X rank parts will cover 80% of repair needs
   X + Y rank parts will cover 95% of repair needs
   Z rank parts are less necessary

Bemerkungen :

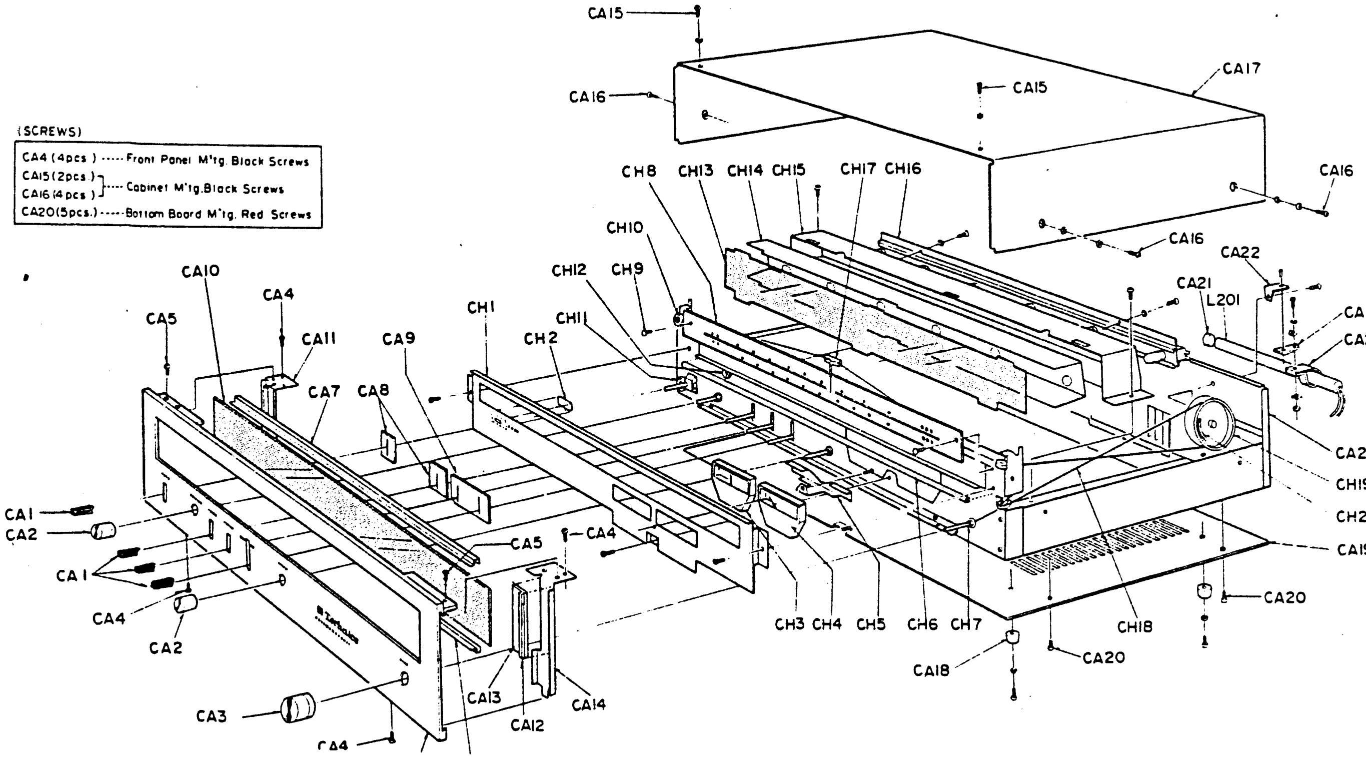
1. Die meisten mechanischen Teile sind mit Teilnummern versehen. Bitte geben Sie diese Nummern an, sofern die Teile keine Bezugsnummern haben.
2. Gruppen X-Z : Teile der Gruppe X machen 80% des Ersatzteilbedarfes aus.
   Teile der Gruppen X und Y machen 95% des Ersatzteilbedarfes aus.
   Teile der Gruppe Z werden seltener benötigt.

Ref No	Part No	Description	Per Set (Pcs)	Remarks
		TRANSISTORS		
TR101.102.103 104.201 (×2). 202(×2).	2SA722T	Equalizer Differential & Tone Differential Amplifier	8	X
TR105.106	2SC1509ⓔQ	Equalizer Amplifier	2	○ X
TR203(×2). 301.302. 403(×2)	2SC1328T	Tone. Filter & Main Pre Driver Amplifier	6	X
TR205(×2)	2SA720R	Tone Control Amplifier	2	X
TR204(×2). 602.603	2SC1318R	Tone Amp & Speaker Protection Switching	4	X
TR109.110.504 505	2SA777Q	Equalizer Amp. An Error Voltage Detector & DC Amp	4	X
TR107.108.502 503	2SC1509Q	Equalizer Amp. DC Amp & An Error Voltage Detector	4	X
TR401(×2). 402(×2)	2SA640AD-R	Main Amp. Differential Amplifier	4	X
TR406(×2)	2SC828R	Thermal Compensation	2	X
TR404(×2). 408(×2)	2SA794R	Pre Driver & Driver Amplifier	4	○ X
TR405(×2). 407(×2)	2SC1567R	Pre Driver & Driver Amplifier	4	○ X
TR409(×2)	2SC793Y	Power Amplifier	2	○ X
TR410(×2)	2SA663Y	Power Amplifier	2	○ X
TR501.506	2SD390A-Q	DC Voltage Control	2	○ X
TR601	2SA684Q	Speaker Protection Relay Switching	1	○ X
		DIODES		
D52	SVDAS2HB10	Rectifier	1	X
D401(×2). 402(×2)	MA150	Thermal Correction	4	X
D501	SVDAC08P-1	Rectifier. Positive Output	1	X
D502	SVDAC08P-1R	Rectifier. Negative Output	1	X
D503.504.511	RVD10D1	Shock Noise Cancel & Rectifier	3	X
D505.506.510	SVDAEQA0124R	24V Zener. Shock Noise Cancel	3	○ X
D507	SVDAEQA0106R	6V Zener. Voltage Stabilizer	1	○ X
D508	SVDAEQA0115R	15V Zener. Voltage Dropper	1	○ X
D509	SVDAEQA0109R	9V Zener. Voltage Dropper	1	○ X
		TRANSFORMER and THERMISTORS		
T1	SLTA5Q24S	Power Transformer	1	○ X
TH401(×2)	RRT251	Thermistor. Driver Circuit	2	Y
		RESISTORS		
R153.154	ERD14TJ470	47Ω. 1/4W ±5%. Carbon	2	Y
R223(×2)	ERD14TJ101	100Ω. 1/4W. ±5%. Carbon	2	Y
R155.210(×2)	ERD14TJ331	330Ω. 1/4W. ±5%. Carbon	3	Y
R212(×2). 213(×2)	ERD14TJ391	390Ω. 1/4W ±5%. Carbon	4	Y
R137.138. 215(×2). 414(×2)	ERD14TJ471	470Ω. 1/4W. ±5%. Carbon	6	Y
R221(×2)	ERD14TJ561	560Ω. 1/4W. ±5%. Carbon	2	Y
R416(×2)	ERD14TJ681	680Ω. 1/4W. ±5%. Carbon	2	Y
R151.152.	ERD14TJ821	820Ω. 1/4W ±5%. Carbon	2	Y
R313.314. 402(×2)	ERD14TJ102	1kΩ. 1/4W. ±5%. Carbon	4	Y
R123.124	ERD14TJ122	1.2kΩ. 1/4W. ±5%. Carbon	2	Y
R109.110.111. 112.202(×2). 225(×2). 229(×2). 405(×2). 415(×2)	ERD14TJ182	1.8kΩ. 1/4W. ±5%. Carbon	14	Y
R103.104.521. 523	ERD14TJ222	2.2kΩ. 1/4W ±5%. Carbon	4	Y
R141.142.516	ERD14TJ272	2.7kΩ. 1/4W ±5%. Carbon	3	Y
R113.114.325. 326.327.328. 424(×2)	ERD14TJ332	3.3kΩ. 1/4W ±5% Carbon	8	Y
R119.120 408(×2)	ERD14TJ392	3.9kΩ. 1/4W ±5%. Carbon	4	Y
R220(×2). 321.322.601	ERD14TJ472	4.7kΩ. 1/4W ±5%. Carbon	5	Y
R209(×2). 211(×2). 222(×2). 226(×2). 524.525	ERD14TJ682	6.8kΩ. 1/4W. ±5%. Carbon	10	Y
R205(×2). 605.606	ERD14TJ822	8.2kΩ. 1/4W. ±5%. Carbon	4	Y
R135.136. 206(×2).303. 304.406(×2). 407(×2).504. 505.506.507. 508.509.532. 533.608. 609	ERD14TJ103	10kΩ. 1/4W. ±5% Carbon	20	Y
R305.306	ERD14TJ123	12kΩ. 1/4W. ±5%. Carbon	2	Y
R207(×2). 208(×2). 224(×2). 227(×2).512	ERD14TJ153	15kΩ. 1/4W. ±5%. Carbon	9	Y
R115.116.117. 118.228(×2). 517	ERD14TJ183	18kΩ. 1/4W. ±5%. Carbon	7	Y
R307.308	ERD14TJ223	22kΩ. 1/4W. ±5%. Carbon	2	Y
R604	ERD14TJ273	27kΩ. 1/4W. ±5%. Carbon	1	Y
R183.184.526 527.607	ERD14TJ333	33kΩ. 1/4W. ±5%. Carbon	5	Y
R412(×2).515. 518	ERD14TJ393	39kΩ. 1/4W. ±5%. Carbon	4	Y
R219(×2).603	ERD14TJ563	56kΩ. 1/4W. ±5%. Carbon	3	Y
R181.182. 218(×2).319. 320.403(×2.) 530.531	ERD14TJ683	68kΩ. 1/4W. ±5%. Carbon	10	Y
R301.302	ERD14TJ823	82kΩ. 1/4W. ±5%. Carbon	2	Y
R139.140.149. 150.214(×2)	ERD14TJ104	100kΩ. 1/4W. ±5%. Carbon	6	Y
R2.3.309.310	ERD14TJ124	120kΩ. 1/4W. ±5%. Carbon	4	Y
R217(×2)	ERD14TJ154	150kΩ. 1/4W. ±5%. Carbon	2	Y
R143.144.147. 148	ERD14TJ184	180kΩ. 1/4W. ±5%. Carbon	4	Y
R323.324	ERD14TJ224	220kΩ. 1/4W. ±5%. Carbon	2	Y
R1.4	ERD14TJ274	270kΩ. 1/4W. ±5%. Carbon	2	Y
R409(×2)	ERD14TJ824	820kΩ. 1/4W. ±5%. Carbon	2	Y
R145.146.311. 312	ERD14TJ105	1MΩ. 1/4W. ±5%. Carbon	4	Y
R107.108	ERD14TSJ393	39kΩ. 1/4W. ±5%. Carbon	2	Y
R317.318. 404(×2)	ERD14TSJ473	47kΩ. 1/4W. ±5%. Carbon	4	Y
R204(×2)	ERD14TSJ154	150kΩ. 1/4W. ±5%. Carbon	2	Y
R105.106. 401(×2)	ERD14TSJ184	180kΩ. 1/4W. ±5%. Carbon	4	Y
R101.102. 201(×2). 203(×2)	ERD14TSJ224	220kΩ. 1/4W. ±5%. Carbon	6	Y
R315.316	ERD14TSJ334	330kΩ. 1/4W. ±5%. Carbon	2	Y
R418(×2). 419(×2)	ERD14FJ3R3	3.3Ω. 1/4W. ±5%. Carbon	4	Y
R413(×2). 417(×2)	ERD14FJ470	47Ω. 1/4W. ±5%. Carbon	4	Y
R420(×2). 421(×2)	ERD14FJ680	68Ω. 1/4W. ±5%. Carbon	4	Y
R127.128.129. 130	ERD14FJ181	180Ω. 1/4W. ±5%. Carbon	4	Y
R131.132.133. 134	ERD14FJ221	220Ω. 1/4W. ±5%. Carbon	4	Y
R121.122.125. 126	ERD14FJ331	330Ω. 1/4W. ±5%. Carbon	4	Y
R410(×2). 411(×2)	ERD14FJ471	470Ω. 1/4W. ±5%. Carbon	4	Y
R510.511.520. 522	ERD14FJ102	1kΩ 1/4W. ±5%. Carbon	4	Y
R602	ERD12TJ471	470Ω. 1/2W. ±5%. Carbon	1	Y
R519	ERD12TJ472	4.7kΩ. 1/2W ±5%. Carbon	1	Y
R501.502.503	ERD18FJ2R2	2.2Ω. 1/8W. ±5%. Carbon	3	Y
R513.514	ERD18FJ100	10Ω. 1/8W. ±5%. Carbon	2	○ Y
R701.702	ERX2ANJ100	10Ω. 2W. ±5%. Metallic	2	○ Y
R422(×2) 423(×2)	ERX3ANJR47	0.47Ω. 3W. ±5%. Metallic	4	○ Y
R703.704	ERG2ANJ471	470Ω. 2W. ±5% Metallic	2	○ Y

■ CABINET AND CHASSIS PARTS LOCATION

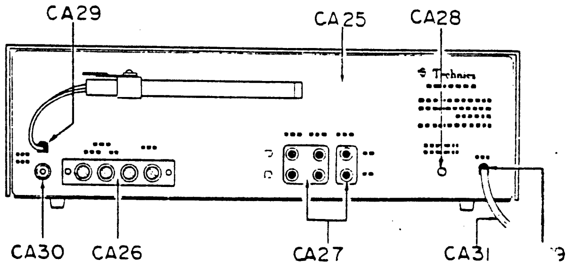
(SCREWS)

CA4 (4pcs) ·····Front Panel M'tg. Black Screws
CA15(2pcs.) ┐
CA16(4pcs) ┘····Cabinet M'tg.Black Screws
CA20(5pcs.)·····Bottom Board M'tg. Red Screws


CA15
CA16
CA15
CA17
CA16
CA16
CH8
CH13
CH14
CH15
CH17
CH16
CH10
CA22
CA21
L201
CA23
CA24
CH12
CH9
CA10
CA4
CA5
CA11
CH1
CH11
CA9
CH2
CA7
CA8
CA25
CH19
CH20
CA19
CA1
CA2
CA1
CA5
CA4
CA4
CA2
CH3
CH4
CH5
CH6
CH7
CH18
CA20
CA20
CA18
CA3
CA13
CA12
CA14
CA4

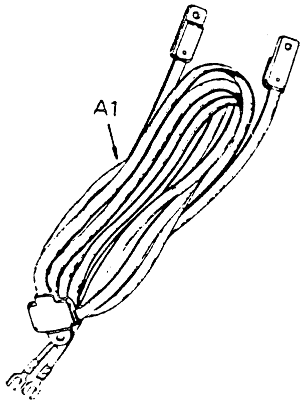
■ TO REMOVE CABINET & FRONT PANEL

1. Remove six (6) cabinet mounting black screws.
(Refer to CA15 and CA16 of Cabinet and Chassis Parts Location)
2. Remove cabinet from chassis.
3. Remove control knobs from front panel.
4. Remove four (4) front panel mounting black screws.
(Refer to CA4 of Cabinet and Chassis Parts Location)
5. Remove front panel.

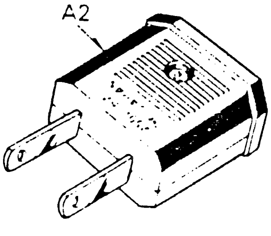

CA29
CA25
CA28
CA30
CA26
CA27
CA31

■ ACCESSORIES

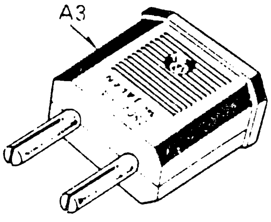
A1



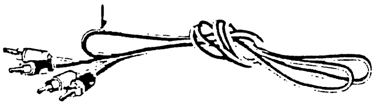
A2



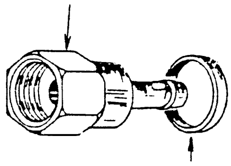
A3



A4



A5



BIND BAND
OF COAXIAL

■ REPLACEMENT PARTS LIST

NOTES

1. Part numbers are indicated on most mechanical parts
Please use this part number for parts orders.
2. **X · Z** rank **X** rank parts will cover 80% of repair needs
X + **Y** rank parts will cover 95% of repair needs
Z rank parts are less necessary

Bemerkungen :

1. Die meisten mechanischen Teile sind mit Teilnummern versehen
Bitte geben Sie diese Nummern an, sofern die Teile keine Bezugsnummern haben
2. Gruppen **X · Z** : Teile der Gruppe **X** machen 80% des Ersatzteilbedarfes aus
Teile der Gruppen **X** und **Y** machen 95% des Ersatzteilbedarfes aus
Teile der Gruppe **Z** werden seltener benötigt

INTEGRATED CIRCUITS and TRANSISTORS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
IC101, 102	SVIATA7061A	FM 2nd~7th IF Amplifier	2	X
IC301	SVISN76115N	FM MPX Circuit (Phase Locked Loop type detector)	1	X
IC401	SVIAμPC33C	AF Amplifier	1	○ X
TR1	3SK49	FM RF Amplifier (FET)	1	○ X
TR2	2SC922M	FM Oscillator	1	X
TR3	2SK49H	Buffer Amplifier (FET)	1	○ X
TR4, 5	3SK39Q	FM Mixer	2	X
TR6, 101, 106, 107, 108, 109, 110, 201, 202, 203, 204, 205	2SC829C	FM 1st, 8th IF, Meter, Muting Multipath Amp. & AM RF, MIX, OSC, IF Amp.	12	X
TR102, 103, 111, 113, 114, 115	2SA564R	AFC Auto Switch & Muting Switch	6	X
TR104	2SK30A-Y	AFC Auto Switch (FET)	1	X
TR116	2SA684R	Relay Driver Amplifier	1	X
TR301	2SA733MAP	DC Amplifier, Stereo Eye	1	X
TR501	2SA699SFR	Regulator	1	X
TR601	2SC945Q1	Relay Timer	1	X

DIODES

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
D1	RVDSC-15	Variable Diode, AFC	1	X
D101, 102	2-0A99	FM Detector	1pair	X
D103, 104, 105, 106, 107, 108, 109, 113, 201, 202, 203	0A99	AFC Switch, Meter Detector, AOC & AM Detector	11	X
D110, 111, 112, 114, 301, 507, 601, 602, 603	MA150	FM Meter, Muting Detector & Switching	9	X
D501, 502, 503, 504	RVD10D1	Rectifier	4	X
D505	SVDAQA0113RA	13V Zener	1	X
D506	SVDARD8.2EB	8.2V Zener	1	○ X

VARIATITE and THERMISTOR

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
V201	EYV320D1R2J3	Variatite, AOC	1	X
TH151	RRT103	10kΩ Thermistor, Muting Level	1	X

COILS and TRANSFORMERS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
L1	SLAA4W1-3	Balun Coil	1	X
L2	RVFBPF10801G	Band Pass Filter Coil	1	○ X
L3	SLAA4N13	FM Antenna Coil	1	X
L4	RLQY15S5	RF Choke Coil	1	X
L5	SLDA4N25	FM DET Coil, Primary	1	X
L6	SLDA4N24	FM DET Coil, Secondary	1	○ X
L7	SLOA4N14	FM OSC Coil	1	X
L8, 9, 101, 102, 103, 151, 152, 501	SLQX101-2D	RF Choke Coil	8	X
L153	SLQX151-1Y	Choke Coil	1	X
L201	SLFA2E20	AM Antenna Coil	1	○ X
L202	ELQ223D599G	Choke Coil	1	X
L301	RLM1X2-D	Choke Coil	1	X
T1	SLIA4C102	FM 1st IF Transformer	1	○ X
T101	SLIA4C541	FM DISCRI IFT, Primary	1	X
T102	SLIA4C56	FM DISCRI IFT, Secondary	1	X
T103, 104	SLIA4C241	Muting IF Transformer	2	X
T201	SLDA2C3	AM DET Transformer	1	X
T202, 203, 204, 205	RLI2C157	AM 1st & 2nd IF Transformer	4	X
T206	RLI2C450	AM 3rd IF Transformer	1	X
T207	SLOA2C7	AM Oscillator Coil	1	X
T501	SLTA5L15	Power Transformer	1	X

CERAMIC FILTERS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
CF1, 2, 101, 102, 103, 104	SVF107MA8A	FM IF Circuit, Red, 10.7MHz	each 6	X
	SVF107MA8B	FM IF Circuit, Blue, 10.67MHz		
	SVF107MA8C	FM IF Circuit, Orange, 10.73MHz		
	SVF107MA8D	FM IF Circuit, Black, 10.64MHz		
	SVF107MA8E	FM IF Circuit, White, 10.76MHz		

RESISTORS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
R505	ERD14TJ120	12Ω, 1/4W, ± 5%, Carbon	1	Y
R501	ERD14TJ150	15Ω, 1/4W, ± 5%, Carbon	1	Y
R201	ERD14TJ220	22Ω, 1/4W, ± 5%, Carbon	1	Y
R5, 251, 508, 510	ERD14TJ101	100Ω, 1/4W, ± 5%, Carbon	4	Y
R511	ERD14TJ121	120Ω, 1/4W, ± 5%, Carbon	1	Y
R210	ERD14TJ151	150Ω, 1/4W, ± 5%, Carbon	1	Y
R23	ERD14VJ181	180Ω, 1/4W, ± 5%, Carbon	1	Y
R108, 319	ERD14TJ181	180Ω, 1/4W, ± 5%, Carbon	2	Y
R123, 164, 169, 506	ERD14TJ271	270Ω, 1/4W, ± 5%, Carbon	4	Y
R104, 157, 158, 159, 173	ERD14TJ331	330Ω, 1/4W, ± 5%, Carbon	5	Y
R20	ERD14VJ471	470Ω, 1/4W, ± 5%, Carbon	1	Y
R167, 194, 212, 317, 318, 603	ERD14TJ471	470Ω, 1/4W, ± 5%, Carbon	6	Y
R102, 113	ERD14TJ561	560Ω, 1/4W, ± 5%, Carbon	2	Y
R160, 202	ERD14TJ681	680Ω, 1/4W, ± 5%, Carbon	2	Y
R21	ERD14VJ681	680Ω, 1/4W, ± 5%, Carbon	1	Y
R217	ERD14TJ821	820Ω, 1/4W, ± 5%, Carbon	1	Y
R14	ERD14VJ821	820Ω, 1/4W, ± 5%, Carbon	1	Y
R19, 103, 109, 110, 165, 203, 204, 209, 302, 313, 314, 315, 316, 407, 410	ERD14TJ102	1kΩ, 1/4W, ± 5%, Carbon	15	Y
R12, 24	ERD14VJ102	1kΩ, 1/4W, ± 5%, Carbon	2	Y
R101, 504	ERD14TJ122	1.2kΩ, 1/4W, ± 5%, Carbon	2	Y
R122	ERD14TJ152	1.5kΩ, 1/4W, ± 5%, Carbon	1	Y
R9	ERD14VJ152	1.5kΩ, 1/4W, ± 5%, Carbon	1	Y
R107, 170	ERD14TJ182	1.8kΩ, 1/4W, ± 5%, Carbon	2	Y
R163, 206, 208	ERD14TJ222	2.2kΩ, 1/4W, ± 5%, Carbon	3	Y
R168, 311, 312	ERD14TJ272	2.7kΩ, 1/4W, ± 5%, Carbon	3	Y
R124, 156, 161, 186, 207, 218, 408, 409, 415, 416	ERD14TJ332	3.3kΩ, 1/4W, ± 5%, Carbon	10	Y
R22	ERD14VJ332	3.3kΩ, 1/4W, ± 5%, Carbon	1	Y
R303	ERD14TJ392	3.9kΩ, 1/4W, ± 5%, Carbon	1	Y
R128, 129, 166, 214, 215, 305, 306, 309, 310, 405, 406	ERD14TJ472	4.7kΩ, 1/4W, ± 5%, Carbon	11	Y
R106, 111, 112, 136	ERD14TJ562	5.6kΩ, 1/4W, ± 5%, Carbon	4	Y
R171, 213	ERD14TJ682	6.8kΩ, 1/4W, ± 5%, Carbon	2	Y
R135, 142	ERD14TJ822	8.2kΩ, 1/4W, ± 5%, Carbon	2	Y
R127, 172, 183, 193, 411, 412, 604	ERD14TJ103	10kΩ, 1/4W, ± 5%, Carbon	7	Y
R15, 205	ERD14VJ103	10kΩ, 1/4W, ± 5%, Carbon	2	Y
R105, 126, 131, 134, 137	ERD14TJ123	12kΩ, 1/4W, ± 5%, Carbon	5	Y
R141, 174, 211, 220	ERD14TJ153	15kΩ, 1/4W, ± 5%, Carbon	4	Y
R16	ERD14VJ153	15kΩ, 1/4W, ± 5%, Carbon	1	Y
R121, 216, 301	ERD14TJ183	18kΩ, 1/4W, ± 5%, Carbon	3	Y
R155, 191, 602	ERD14TJ223	22kΩ, 1/4W, ± 5%, Carbon	3	Y
R8, 18	ERD14VJ223	22kΩ, 1/4W, ± 5%, Carbon	2	Y
R7	ERD14VJ273	27kΩ, 1/4W, ± 5%, Carbon	1	Y
R192	ERD14TJ273	27kΩ, 1/4W, ± 5%, Carbon	1	Y
R140, 184, 601	ERD14TJ473	47kΩ, 1/4W, ± 5%, Carbon	3	Y
R219	ERD14TJ563	56kΩ, 1/4W, ± 5%, Carbon	1	Y
R10	ERD14VJ563	56kΩ, 1/4W, ± 5%, Carbon	1	Y
R6, 11, 13	ERD14VJ104	100kΩ, 1/4W, ± 5%, Carbon	3	Y
R2, 4, 125, 133, 182, 185, 188, 307, 308, 403, 404	ERD14TJ104	100kΩ, 1/4W, ± 5%, Carbon	11	Y
		1/4W, ± 5%, Carbon		Y
R175, 189, 190	ERD14TJ124	120kΩ,	3	
R401, 402	ERD14TJ154	150kΩ, 1/4W, ± 5%, Carbon	2	Y
R1	ERD14VJ184	180kΩ, 1/4W, ± 5%, Carbon	1	Y
R176	ERD14TJ224	220kΩ, 1/4W, ± 5%, Carbon	1	Y
R17	ERD14VJ274	270kΩ, 1/4W, ± 5%, Carbon	1	Y
R25	ERD14TJ394	390kΩ, 1/4W, ± 5%, Carbon	1	Y

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
R417	ERD14TJ474	470kΩ, 1/4W, ± 5%, Carbon	1	Y
R181, 187	ERD14TJ564	560kΩ, 1/4W, ± 5%, Carbon	2	Y
R132	ERD14TJ824	820kΩ, 1/4W, ± 5%, Carbon	1	Y
R502, 503	ERD12TJ470	47Ω, 1/2W, ± 5%, Carbon	2	Y
R507	ERD12TJ221	220Ω, 1/2W, ± 5%, Carbon	1	Y
R511	ERC12GK335Z	3.3MΩ, 1/2W, ±10%, Solid	1	Y

VARIABLE RESISTORS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
VR101, 201	EVLS3AA00B24	20kΩ(B), Muting & AM Meter Adj.	2	X
VR102	EVLS3AA00B23	2kΩ(B), FM Signal Meter Adjustment	1	X
VR103	EVLS3AA00B15	100kΩ(B), Muting Adjustment	1	X
VR301	EVLS3AA00B14	10kΩ(B), FM MPX VCO Adjustment	1	X
VR401, 402	EWFNVAF30A14	10kΩ(A), Output Level Control	1	X
VR403	EVLS3AA00B55	500kΩ(B), Separation Adjustment	1	X

CAPACITORS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
C133	ECCD1H0R5CC	0.5pF, 50WV, ±0.25pF, Ceramic	1	Z
1	ECCD1H030CC	3pF, 50WV, ±0.25pF, Ceramic	1	Z
2	ECCD1H040CC	4pF, 50WV, ±0.25pF, Ceramic	1	Z
C13, 202, 209	ECCD1H050CC	5pF, 50WV, ±0.25pF, Ceramic	3	Z
C7, 16	ECCD1H070DC	7pF, 50WV, ±0.5pF, Ceramic	2	Z
C11	ECCD1H070DU	7pF, 50WV, ±0.5pF, Ceramic	1	Z
C1, 6, 123, 203	ECCD1H100KC	10pF, 50WV, ±10%, Ceramic	4	Z
C19	ECCD1H120KC	12pF, 50WV, ±10%, Ceramic	1	Z
C15, 17	ECCD1H150KC	15pF, 50WV, ±10%, Ceramic	2	Z
C12	ECCD1H150KU	15pF, 50WV, ±10%, Ceramic	1	Z
C405, 406	ECCD1H330KC	33pF, 50WV, ±10%, Ceramic	2	Z
C14, 151	ECCD1H390KC	39pF, 50WV, ±10%, Ceramic	2	Z
C111	ECCD1H470KR	47pF, 50WV, ±10%, Ceramic	1	Z
C121	ECCD1H470KC	47pF, 50WV, ±10%, Ceramic	1	○ Z
C23	ECCD1H560KR	56pF, 50WV, ±10%, Ceramic	1	Z
C115, 215	ECCD1H101K	100pF, 50WV, ±10%, Ceramic	2	○ Z
C184	ECCD1H181K	180pF, 50WV, ±10%, Ceramic	1	Z
C2, 3, 4, 5, 8, 9, 18, 22, 27, 28, 124, 125, 174	ECKD1H102PF	0.001μF, 50WV, $^{+100}_{-0}$%, Ceramic	13	Z
C21, 159	ECKE1H102MD	0.001μF, 50WV, ±20%, Ceramic	2	Z
C109, 157, 158, 163, 164	ECKE1H222MD	0.0022μF, 50WV, ±20%, Ceramic	5	Z
C154, 171, 172, 173, 205, 210, 213	ECKE1H223PF	0.022μF, 50WV, $^{+100}_{-0}$%, Ceramic	7	Z
C26, 104, 108, 110, 122, 155, 156, 160, 161, 162, 165, 170, 182, 185	ECKE1H333PF	0.033μF, 50WV, $^{+100}_{-0}$%, Ceramic	14	Z
C204, 207, 221, 222, 223	ECKE1H103MD	0.01μF, 50WV, ±20%, Ceramic	5	Z
1	ECKDAL103PE	0.01μF, 150VAC, $^{+100}_{-0}$%, Ceramic	1	Z
[illegible], 114	ECQG05102KZN	0.001μF, 50WV, ±10%, Polyester	2	Z
C313, 314, 315, 316	ECQM05152JZ	0.0015μF, 50WV, ± 5%, Polyester	4	Z
C317, 318	ECQM05332JZ	0.0033μF, 50WV, ± 5%, Polyester	2	Z
C307	ECQM05332KZ	0.0033μF, 50WV, ±10%, Polyester	1	Z
C407, 408	ECQG05332KZN	0.0033μF, 50WV, ±10%, Polyester	2	Z
C403, 404	ECQM05472KZ	0.0047μF, 50WV, ±10%, Polyester	2	Z
C216, 217	ECQM05103KZ	0.01μF, 50WV, ±10%, Polyester	2	Z
C319, 320	ECQM05103JZ	0.01μF, 50WV, ± 5%, Polyester	2	Z
C224	ECQM05153KZ	0.015μF, 50WV, ±10%, Polyester	1	Z
C311, 312	ECQM05153JZ	0.015μF, 50WV, ± 5%, Polyester	2	Z
C208, 211, 226	ECQM05223KZ	0.022μF, 50WV, ±10%, Polyester	3	Z
C24, 25	ECQG05223KZN	0.022μF, 50WV, ±10%, Polyester	2	Z
C101, 103, 105, 119	ECQG05333KZN	0.033μF, 50WV, ±10%, Polyester	4	Z
C117, 118, 135, 168	ECQM05333KZ	0.033μF, 50WV, ±10%, Polyester	4	Z
C102, 106	ECQG05473KZN	0.047μF, 50WV, ±10%, Polyester	2	Z
C166	ECQM05473KZ	0.047μF, 50WV, ±10%, Polyester	1	Z
C302	ECQM05473JZ	0.047μF, 50WV, ± 5%, Polyester	1	Z
C411	ECQM05563KZ	0.056μF, 50WV, ±10%, Polyester	1	Z
C152, 167	ECQM05683KZ	0.068μF, 50WV, ±10%, Polyester	2	Z
C218	ECQM05104KZ	0.1μF, 50WV, ±10%, Polyester	1	Z
C220	ECQS1361JZ	360pF, 125WV, ± 5%, Styrol	1	Z
C321	ECQS1471JZ	470pF, 125WV, ± 5%, Styrol	1	Z
C303	ECQS1471JZ-K	470pF, 125WV, ± 5%, Styrol	1	Z
C305, 306	ECAG25ER33X	0.33μF, 25WV, Electrolytic	2	Y
C304	ECAG25ER47X	0.47μF, 25WV, Electrolytic	1	Y
C169	ECEA6V100	100μF, 6.3WV, Electrolytic	1	Y
C130, 183, 401, 402, 409, 410	ECEA16N4R7	4.7μF, 16WV, Non-Polar Electrolytic	6	Y
C116	ECEA16N10	10μF, 16WV, Non-Polar Electrolytic	1	Y

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
C129, 131, 132, 214, 227	ECEA16V10	10μF, 16WV, Electrolytic	5	Y
C229, 508, 509	ECEA16V100	100μF, 16WV, Electrolytic	3	Y
C181	ECEA16V220	220μF, 16WV, Electrolytic	1	Y
C503, 506, 510, 512	ECEA16V470	470μF, 16WV, Electrolytic	4	Y
C310, 502, 504	ECEA16V1000	1000μF, 16WV, Electrolytic	3	Y
C126	ECEA25V3R3	3.3μF, 25WV, Electrolytic	1	Y
C112, 228, 301, 308, 309	ECEA25V4R7	4.7μF, 25WV, Electrolytic	5	Y
C601	ECEA25V33	33μF, 25WV, Electrolytic	1	Y
C602	ECEA25V330	330μF, 25WV, Electrolytic	1	Y
C505	ECEA25V470	470μF, 25WV, Electrolytic	1	Y
C507	ECEA25V1000	1000μF, 25WV, Electrolytic	1	Y
C107	ECEA35V100	100μF, 35WV, Electrolytic	1	Y
C127, 206	ECEA50V1	1μF, 50WV, Electrolytic	2	Y
C603	ECEB25V2200Z	2200μF, 25WV, Electrolytic	1	Y

VARIABLE CAPACITORS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
CV1, 2, 3, 4, 201, 202, 203	ECV7MX34X15G	Tuning Gang, FM & AM	1	○ X
(CT201, 202, 203)		(Trimmer, AM ANT, DET & OSC)		
CT1, 2, 3	ECV1ZW10P32	Trimmer, FM ANT & DET, 10pF	3	X
CT4	ECV1ZW06P35	Trimmer, FM OSC, 6pF	1	X

LIGHTS and FUSES

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
PL1, 2, 3, 4, 5, 6	XAM35K	Dial Lamp	6	X
PL7	XAMR38S150A	FM Stereo Indicator (Stereo Eye)	1	X
F1	XBAS1B0302	Fuse, 0.3A	1	X
F2	XBAS1B0502	Fuse, 500mA	1	○ X

COMPONENT COMBINATIONS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
Z501, 502	RXAF103P22HD	Noise Canceler, 0.01μF(X2)	2	Y
Z301	SLMA1Z3-K	Low Pass Filter	1	X

RELAY

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
RLY201	SSYA7	Muting Switching	1	○ X

SWITCHES

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
S1	SSRA60	Selector Switch	1	○ X
S2	SSLA29S	Muting & AFC Switch	1	○ X
S3	SSLA26S	Delay Time Switch	1	○ X
S4	SSLA25S	MPX Hi-Blend Switch	1	X
S501	SSLA20S	Power Source Switch	1	X
S502	....	Voltage Selector Switch, Refer to Ref. No. CA28	1	

CABINET PARTS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
CA1	SBLA3	Knob, Lever Switch	3	X
CA2	SBNA116E	Knob, Band Selector & Output Level Control	2	X
CA3	SBNA117SE	Knob, Tuning (With M'tg. Screw)	1	X
CA4	XTV3+8CK	Black Screw, Front Panel M'tg.	4	Z
CA5	XSS3+6S	Screw, Metal Fitting M'tg.	2	Z
	SYWT3500×1	Front Panel, Complete	1	○ Y
CA6	SGWA1280	Panel, Indicator (Order SYWT3500×1)	(1)	
CA7	SGXA58	Mounting, Glass Plate	2	Z
CA8	SHRA606-1	Bracket, Power Switch	2	Z
CA9	SHRA609	Bracket, Muting & Hi-Blend Switch	1	Z
CA10	SGUA20	Glass Plate, Dial	1	Y
CA11	SULA51S	Mounting, Glass Plate, Left Side	1	Z
CA12	SHGA620	Rubber Cushion, Glass (½×2pcs.)	1	Z
CA13	SHGA640	Rubber Cushion, Glass Plate	2	Z
CA14	SULA52S	Mounting, Glass Plate, Right Side	1	Z
CA15	XSB3+8KS	Black Screw, Cabinet M'tg.	2	Z

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
CA16	XSB4+10KS	Black Screw, Cabinet M'tg.	4	Z
CA17	SKAA701	Cabinet	1	Y
	SYUA81A	Bottom Board, Complete	1	Y
CA18	SHGA929	Leg	4	Z
CA19	SKUA351	Bottom Board Only	1	Z
CA20	XTB4+8BR	Red Screw, Bottom Board M'tg.	5	Z
CA21	SHGA925	Rubber Cap, AM Bar Antenna	1	Z
CA22	SMAA19-1	Metal Fitting, AM Bar Antenna M'tg.	1	Z
CA23	SMAA18	Metal Fitting, AM Bar Antenna M'tg.	1	Z
CA24	SMAA6-2	Band, AM Bar Antenna Mounting	1	Z
	SYPA224AS	Rear Panel, Complete	1	○ Y
CA25	SGPA371B	Rear Panel Only	1	○ Z
CA26	SJFA4401	Terminal, FM & AM Ext, Antenna	1	Y
CA27	SJFA3602	Terminal, Output	1	Y
CA28	SSRA8	Switch, Voltage Selector (S502)	1	Y
CA29	RHR111	Bushing, AC Cord & AM ANT Lead	2	Z
CA30	SJSA67-1	Socket, FM 75Ω Coaxial	1	Y
CA31	SJAA3-1	AC Cord, Power Source	1	Y

CHASSIS PARTS

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
CH1	SDHA50	Mounting, Meter & Dial Scale	1	Z
CH2	SDUA7	Filter, Stereo Indicator Lamp	1	Z
CH3	SSMA26-1	Meter, FM Tuning	1	X
CH4	SSMA25-1	Meter, Signal Strength	1	X
CH5	SMMA10	Mounting, Meter	1	Z
CH6	SUMA8	Mounting, Dial Scale	1	Z
CH7	SDTA6S	Tuning Shaft, Complete	1	Y
	SDXA705S	Flywheel (Not Available Order SDTA6S)	(1)	
	SDTA6006	Shaft Only (Not Available Order SDTA6S)	(1)	
	SDXA305S	Mounting, Shaft (Not Available Order SDTA6S)	(1)	
CH8	SKDA440	Scale, Dial	1	Y
CH9	SHRA916	Lock Pin, Dial Scale	2	Z
CH10	RDR20	Pulley, Dial Cord, Small	3	Z
	RDY34	Shaft, Small Pulley	3	Z
	RNW150-2	Washer, Pulley	4	Z
CH11	RDR23	Pulley, Dial Cord, Large	1	Z
	RDY32	Shaft, Large Pulley	1	Z
CH12	SHGA204	Bracket, Stereo Indicator Lamp	1	Z
CH13	SDUA6	Filter, Dial Light	1	Z
CH14	SDHA49	Reflection Paper, Dial Light	1	Z
CH15	SMPA51	Lamp House, Dial Light	1	Z
CH16	SJSA204-1	Holder, Dial Lamp	1	Y
CH17	SDPA5	Pointer, Dial	1	Y
CH18	RDZ05-5	Cord, Dial 200cm (78¾")	1roll	Y
CH19	SDDA471S	Drum, Dial Cord	1	Y
CH20	SDSA4121	Spring, Dial Cord	1	X
	XXAR3H6S	Screw, Drum M'tg.	2	Z

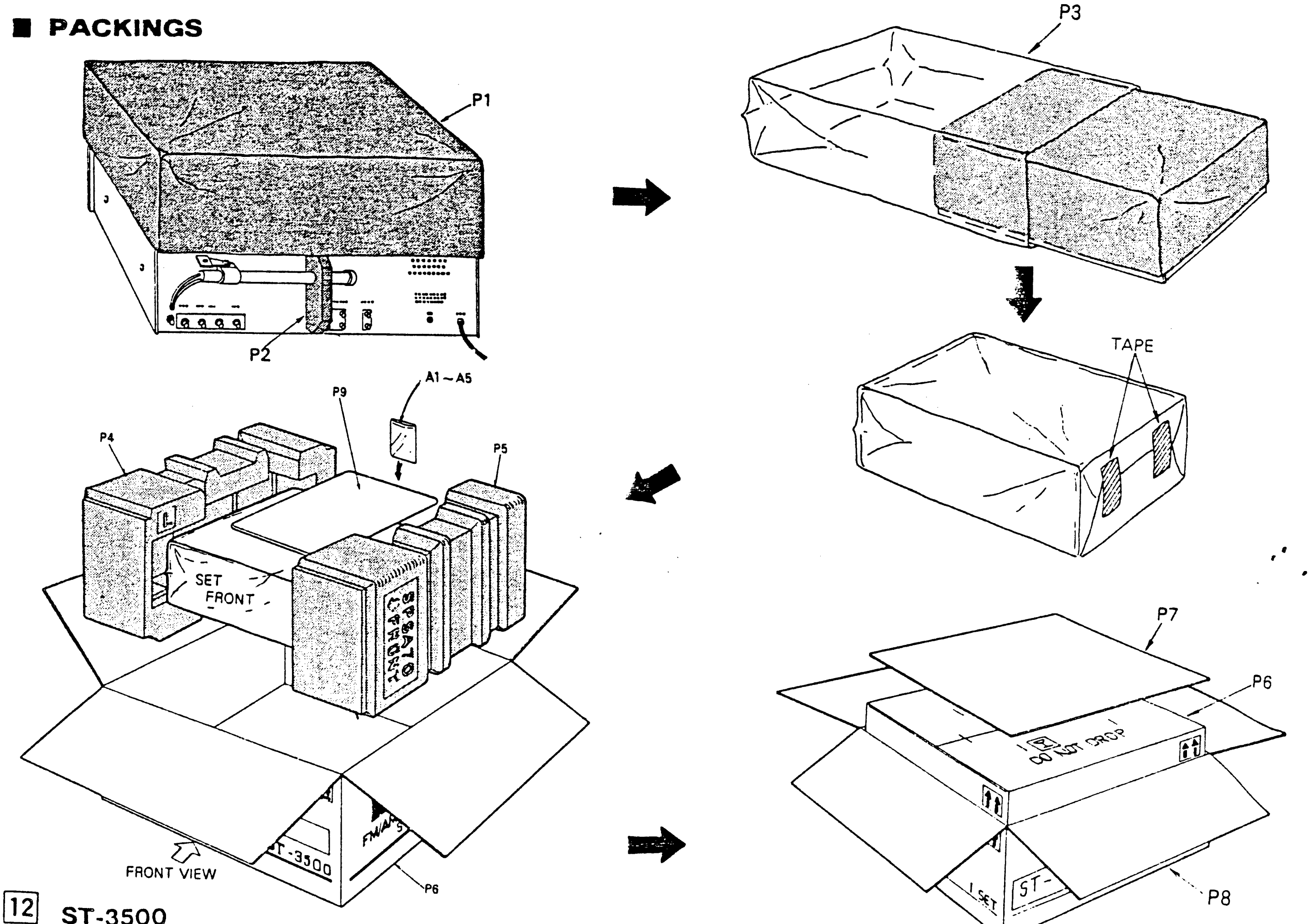
ACCESSORIES

Ref. No.	Part No.	Description	Per Set (Pcs)	Remarks
A1	SSAA1	Cord, FM Antenna	1	Y
A2	RJP16AS	AC Plug	1	Y
A3	RJP17AS	AC Plug	1	Y
A4	SJP2129	Cord, Connector	1	Y
A5	SJSA68-1	Plug, Coaxial (With Bind Band)	1	Y

PACKING PARTS

Ref. No.	Part No.	Description	Per Set (Pcs)	Remarks
P1	SPPA16-1	Soft Cover	1	Z
P2	SPSA31	Pad, AM Bar Antenna	1	Z
P3	SPP163	Polyethylene Bag	1	Z
P4	SPSA73	Pad, Left Side	1	Z
P5	SPSA70	Pad, Right Side	1	Z
P6	SPNA250A	Carton Box, Inner	1	○ Z
P7	SPSA30	Pad, Between Inner & Outer Carton	1	Z
P8	SPGA490A	Carton Box, Outer	1	○ Z
P9	SQFA189	Printed Matter, Complete	1	○ Y
	SQXA5112	Instructions Book(Order SQFA189)	(1)	

■ PACKINGS



Printed in Japan Ⓚ